

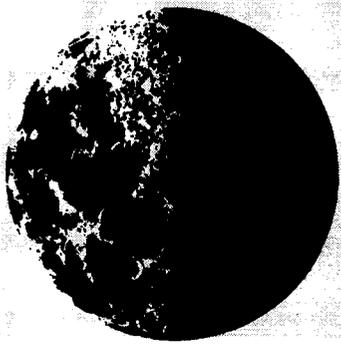
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N79-76110

(NASA-CR-117705) APOLLO PS-3 MODEL WIND  
TUNNEL TEST IN TUNNEL C OF THE AEDC VON  
KARMAN GAS DYNAMICS FACILITY (North American  
Aviation, Inc.) 147 P

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DATA REPORT FOR APOLLO PS-3 MODEL WIND  
TUNNEL TEST IN TUNNEL C OF THE AEDC VON  
KARMAN GAS DYNAMICS FACILITY (U)  
NAS9-150  
(U)

17 December 1962

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Prepared by

Apollo Engineering  
Aerodynamics Section



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**NORTH AMERICAN AVIATION, INC.**  
SPACE and INFORMATION SYSTEMS DIVISION

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## FOREWORD

The PS-3 model tests were conducted under NASA Apollo contract NAS9-150.

This report was prepared by J. C. Snowden of the Wind Tunnel Test Group, Space and Information Systems Division, North American Aviation, Inc.

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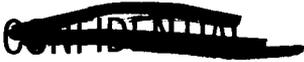
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## ABSTRACT

Results of wind tunnel tests of the Apollo pressure model PS-3 in tunnel C of the Arnold Engineering Development Center's von Karman Gas Dynamics Facility at Mach number 10.0 are presented. Descriptions of models and tunnel installation are given in addition to pressure instrumentation and actual tunnel operating conditions. Pressure coefficient data are presented for all runs.

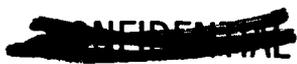
Basic wind tunnel test data are presented only to make the test results available at the earliest possible date. Analyses and summary of result will be published in a separate document.

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## I. INTRODUCTION

The Apollo pressure model PS-3 was tested in wind tunnel C of the AEDC von Karman Gas Dynamics Facility from 6 September 1962 to 22 September 1962.

This test was conducted to determine the pressure distribution on 0.045-scale models of the command module alone and the command module and service module configuration at Mach number 10 at or near flight Reynolds numbers. The models were constructed by North American Aviation, Inc.

Additional information relative to these tests is presented in the pretest<sup>1</sup> and the structural analysis<sup>2</sup> reports.

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<sup>1</sup>Pretest Report for the 0.045-Scale Apollo Pressure Model PS-3 in the AEDC von Karman Gas Dynamics Facility A, B, and C Tunnels. SID 62-752.

<sup>2</sup>Structural Analysis of the 0.045-Scale Apollo Force and Pressure Models (FS-3 and PS-3). SID 62-777.

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## II. MODEL DESCRIPTION

### COMMAND MODULE

Three command modules were used to cover an angle-of-attack range of 0 to 180 degrees. The stings were integral with each command module but were at angles of 30, 90, and 120 degrees relative to the axis of symmetry. A sketch of the command module is shown in Figure 1, and drawings NAA 7121-01162-5 through -10 give detailed descriptions.

### SERVICE MODULE

One service module was used in conjunction with one of the command modules. The sting was attached at the rear making an angle of 30 degrees with the centerline of the service module. This sting arrangement provided an angle-of-attack range of 0 to 60 degrees. Figure 2 shows the command module and service module configuration. The complete service module alone is detailed in drawing NAA 7121-01167-2.

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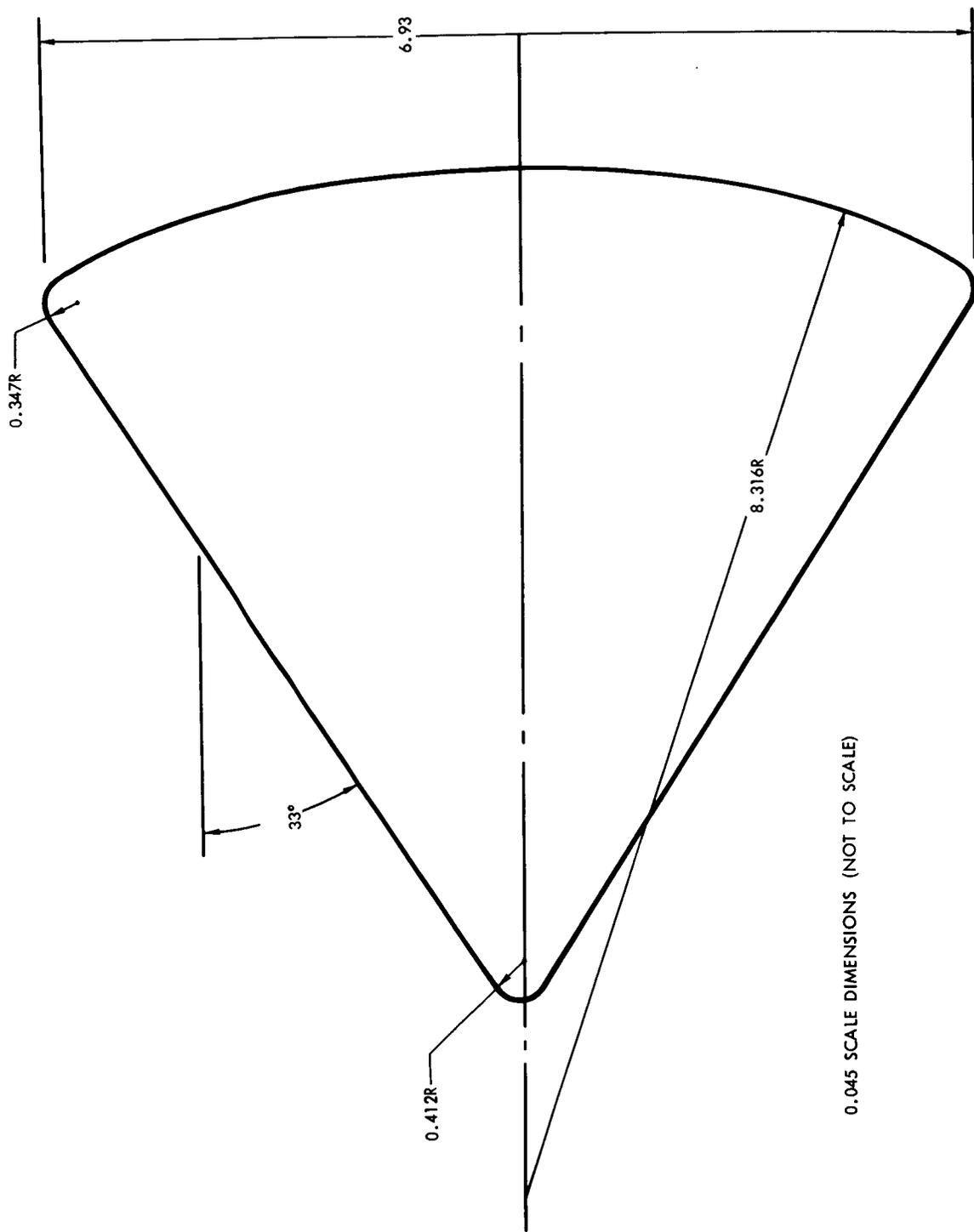


Figure 1. Command Module

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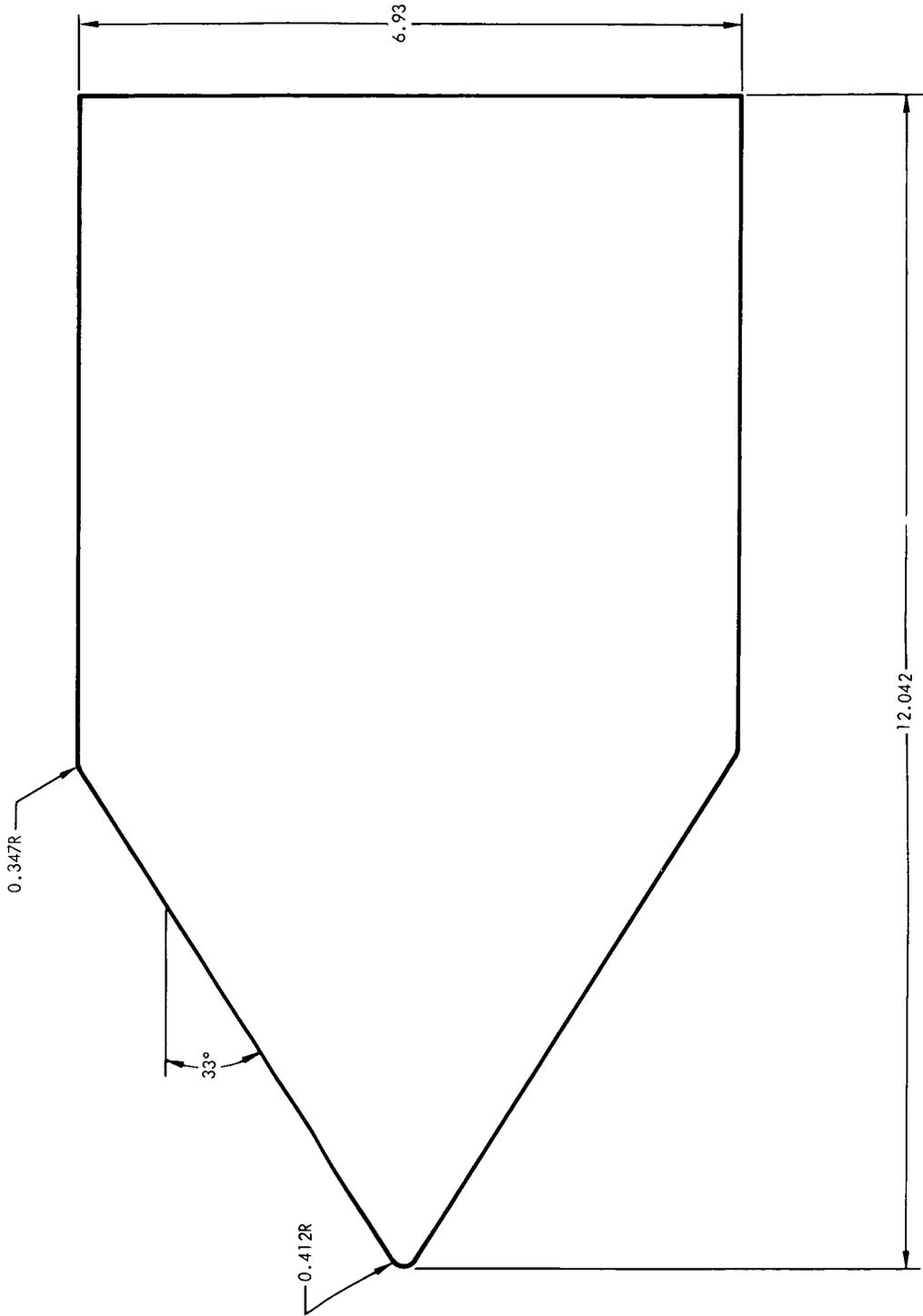


Figure 2. Command Module With Service Module

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### III. INSTRUMENTATION

The command module alone and the command module with service module configuration contain 88 pressure orifices distributed as shown in Figures 3, 4, and 5. Certain taps on the command module are eliminated by the sting position and tower attach points for testing of the launch escape vehicle (Figure 3). On the command module with service module configuration, the 90 through 140 series orifices on the heat shield are deleted. The measured S/R ratio for each pressure orifice is given in the following listing:

Orifice	S/R	Orifice	S/R
1	0.000	5, 100, 102, 104, 106, 108, 109	1.918
190, 194, 199	0.064	6, 110, 112, 114, 116, 118, 119	2.085
20, 29	0.118	120, 122, 124, 126, 129	2.354
250, 259	0.208	130, 139	2.626
30, 32, 34, 36, 39	0.289	140	2.886
40 - 47, 49	0.497	1030, 1039	1.979
450, 452, 454, 456, 459	0.936	1060, 1069	2.034
50 - 57, 59	1.155	1159	2.143
550, 552, 554, 556, 559	1.372	150, 152, 154, 156, 159	2.217
60 - 64, 66, 68, 69	1.589	1550, 1552, 1554, 1556, 1557	2.907
2, 70, 72, 74, 76 - 79	1.742	160, 162, 164, 166, 169	4.687
3, 80, 81, 82, 84, 86 - 89	1.797	1650, 1652, 1654, 1656, 1659	5.807
4, 90, 91, 92, 94, 96 - 99	1.854	170, 172, 174, 176, 179	7.577

The 88 pressures were measured with a system that used a Giannini scanning valve and a valve that selects either one of two transducers with various amplification factors to yield the needed pressure ranges.

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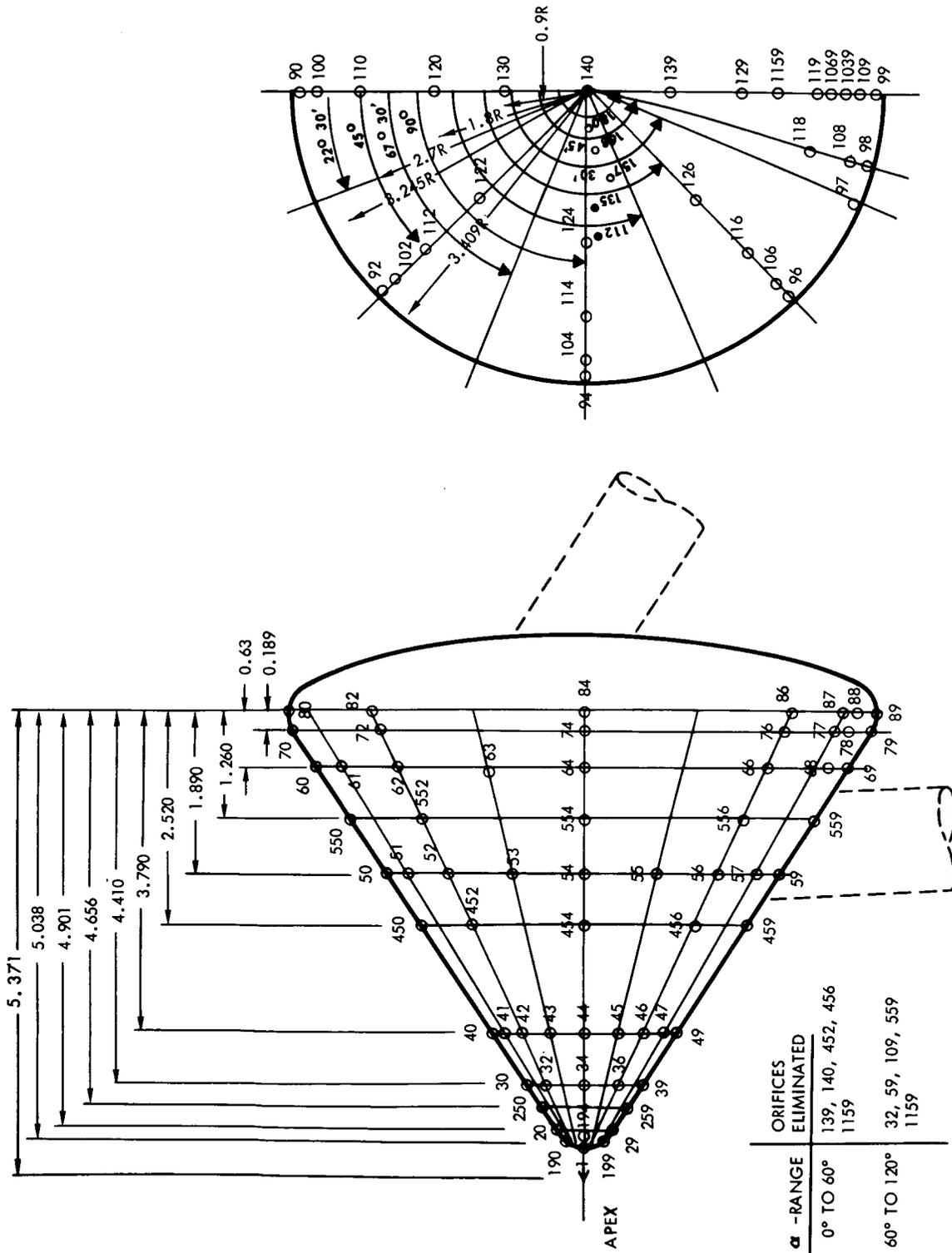


Figure 3. Command Module Instrumentation in the Range 0 to 120 Degrees

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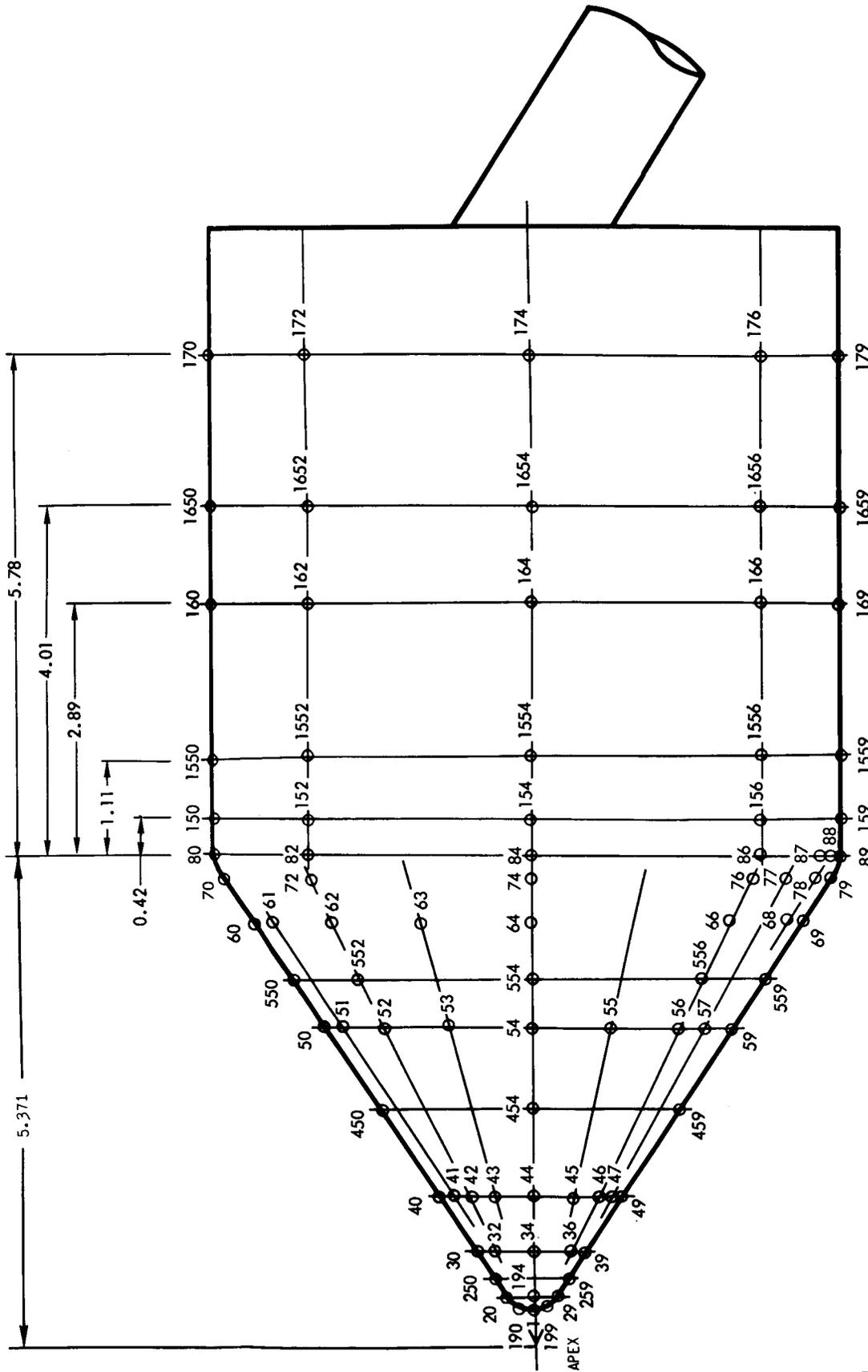


Figure 5. Command Module With Service Module Instrumentation

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#### IV. OPERATING CONDITIONS

##### MODEL ATTITUDES

The angle-of-attack range for the command module was from 0 to 180 degrees and from 0 to 60 degrees for the command module with service module. The model installation is shown in Figure 6.

##### FLOW CONDITIONS

The flow conditions for Mach number 10 provide a Reynolds number range of 0.24 to  $1.1 \times 10^6$  based on the command module diameter.

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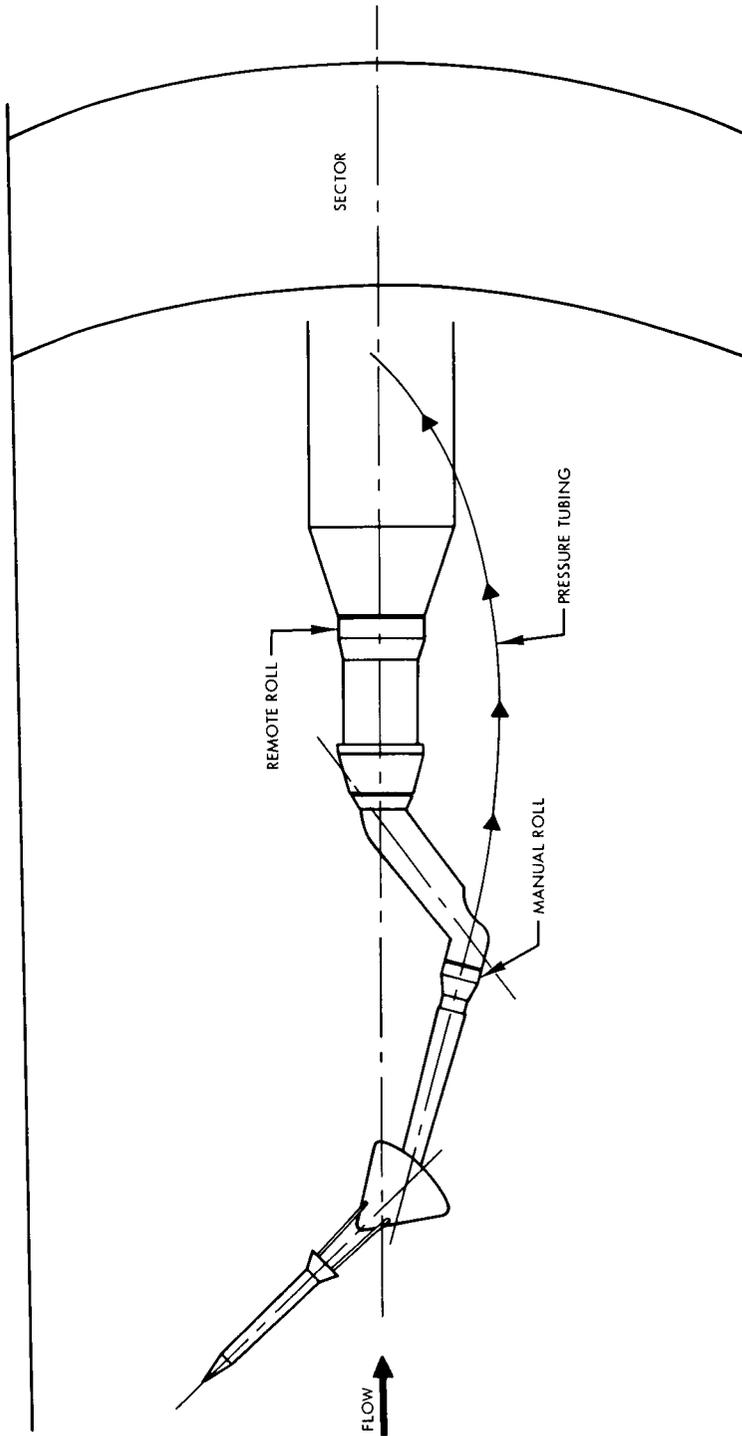


Figure 6. Model Installation

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V. TEST PROGRAM

The test program in tunnel C at Mach number 10 was completed in two parts, because of a tunnel heater breakdown. The groups completed during the first portion of the test are summarized in Table 1; groups completed during the second portion are summarized in Table 2.

Table 1. Completed Groups — Part I

Configuration	Reynolds No.	Group No.	Angle of Attack (deg)
$C_2$  	$1.1 \times 10^6$  	8	0
		9	3
		10	5
		11	10
		12	15
		13	20
		14	25
		1, 15	30
		2	35
		3	40
		4	45
		5	50
		6	55
		7, 31	60
		32	65
$C_2$  	$1.1 \times 10^6$ $0.24 \times 10^6$  	33	70
		34	75
		35	80
		36	85
		37	90
		16	0
$E_{35}T_{14}C_2$  	$0.24 \times 10^6$  	17	3
		18	5
		19	10
		20	15
		21	20
		22	25

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Table 1. Completed Groups—Part I (Cont)

Configuration	Reynolds No.	Group No.	Angle of Attack (deg)
$E_{35}T_{14}C_2$	$0.24 \times 10^6$	23, 24	30
		25	35
		26	40
		27	45
		28	50
$E_{35}T_{14}C_2$	$0.24 \times 10^6$	29	55

Table 2. Completed Groups—Part II

Configuration	Reynolds No.	Group No.	Angle of Attack (deg)
$C_2$	$1.1 \times 10^6$	16	120
		17	125
		18	130
		19	135
		20	140
		21	145
		22	147
		23	149
		24, 25	150
		26	152
		27	155
		28	160
		29	165
		30	170
		31	175
		32	180
$C_2$	$1.1 \times 10^6$	8	0
$C_2S$	$0.24 \times 10^6$	9	3
		10	5
		11	10
		12	15
		13	20
		14	25
		15, 2	30
		3	35
		4	40
		1	45
		5	50
		6	55
$C_2S$	$0.24 \times 10^6$	7	60

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## DATA REDUCTION

Data reduction involved conversion of pressures to coefficient form as follows:  $C_p = \frac{P_x - P_\infty}{q}$

## NOMENCLATURE

$C_p$  = local pressure coefficient

$P_x$  = pressure at any orifice

$P_\infty$  = free stream static pressure

$P_o$  = total pressure

$P_o'$  = total pressure behind a normal shock

$T_o$  = Total temperature, degrees Rankin

$q_\infty$  = free stream dynamic pressure

$s$  = distance to orifice from center of launch face of model measured along the surface of the model, inches

$r$  = radius of command module at the maximum diameter, inches

$\alpha_s$  = sector angle of attack, degrees

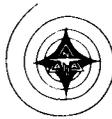
$\alpha$  = model angle of attack, degrees

## DATA ACCURACY

Pressures were measured with an accuracy of 0.2 percent of the rated transducer used. The maximum possible error occurring in the pressure coefficients because of local pressure, total pressure, and dynamic pressure measurement accuracy was calculated using the total differential method. The maximum error in pressure coefficient was found to be  $\pm 0.001$ .

The angle-of-attack accuracy is  $\pm 0.1$  degree.

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APPENDIX A  
TABULATED DATA

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TABULATED DATA FORMAT

The tabulated data gives  $P$ ,  $C_p$ , and  $P/P_o'$  for each orifice number listed in the array shown in the data format. These numbers correspond to orifice locations on the model (Figures 3 and 4). The pertinent run number, group number, Mach number, configuration, angle of attack, roll angle, static pressure, total pressure, dynamic pressure, total temperature, and Reynolds number are listed at the top of each data sheet.

The following is a list of the machine nomenclature that correspond to the standard nomenclature.

S - ALPHA =  $\alpha_s$

RE = Reynolds Number

ALPHA =  $\alpha$

TO =  $T_o$

PO =  $P_o$

CP =  $C_p$

Q-INF =  $q_\infty$

P/P01 =  $P/P_o'$

The data also include configuration numbers as follows:

Test Part	Configuration	Configuration No.	$\alpha$ - Range (deg)
Part I	$C_2$	1	0 to 60
	$C_2$	2	60 to 120
	$E_{35}T_{14}C_2$	4	0 to 60
Part II	$C_2$	3	120 to 180
	$C_2S$	4	0 to 60

Powers of 10 are used to position the decimal point in the data presented.

(Example: 9.972 - 03 means  $9.972 \times 10^{-3} = 0.009972$ )

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Data Format for Configuration C2 and E35T14C2 in the  
Alpha-Range of 0 to 60 Degrees

1	80	39	52	94	66	97	459
190	90	52	63	104	76	68	59
20	100	552	194	114	86	78	69
250	110	62	34	124	96	88	79
30	120	72	44	45	106	98	89
40	130	82	454	55	116	108	99
450	41	92	54	36	126	118	109
50	51	102	554	46	47	199	1039
550	61	112	64	559	57	29	1069
60	32	122	74	56	77	259	119
70	42	43	84	556	87	49	129

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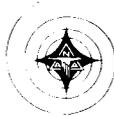
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Data Format for Configuration C<sub>2</sub> in the Alpha-Range of

60 to 120 Degrees

1	80	42	43	84	66	97	459
190	90	452	53	94	76	68	49
20	100	52	63	556	86	78	79
250	110	552	194	114	96	88	89
30	120	62	34	124	106	98	99
40	130	72	44	45	116	108	109
450	140	82	454	55	126	118	1039
50	41	92	54	36	47	199	1069
550	51	102	554	46	57	29	119
60	61	112	64	456	77	259	129
70	69	122	74	56	87	39	139

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Data Format for Configuration C2 in the Alpha-Range of  
120 to 180 Degrees

1	80	3	452	53	94	66	259
190	90	4	52	63	104	76	59
20	100	5	552	194	114	86	559
250	1030	6	62	34	124	96	69
30	1060	41	72	44	45	106	79
40	110	51	82	454	55	116	89
450	1150	61	92	54	36	126	99
50	120	71	42	554	46	47	109
550	130	81	112	64	456	57	119
60	140	91	122	74	56	199	129
70	2	32	43	84	556	29	139

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Data Format for Configuration C2S in the Alpha-Range of

0 to 60 Degrees

1	80	CASE	43	84	56	57	69
190	150	52	53	154	556	77	79
20	1550	552	63	1554	66	87	89
250	160	62	194	164	76	199	159
30	1650	72	34	1654	86	29	1559
40	170	82	44	174	156	259	169
450	41	152	454	45	1556	39	1659
50	51	1552	54	55	166	49	179
550	61	162	554	36	1656	459	68
60	32	1652	64	46	176	59	78
70	42	172	74	CASE	47	559	88



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PART I TABULATED DATA

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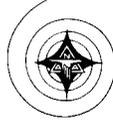


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RUN	GROUP	PROJECT NO	MACH NO	CONFIGURATION	S-ALPHA	S-ROLL	PSI	ALPHA
1.	1.	304244	10.14	1	-14.97	.00	-.00	30.01
VALVE POS 2	PO = 1588.5	Q-INF = 2.354	P-INF = .0325	RE = .1593	TO = 1902			
P	3.3161+00	9.0358-01	2.1214-01	1.8846+00	2.8651-02	2.4363-01	2.9580-02	1.6044-01
CP	1.3952+00	3.7014-01	7.6348-02	7.8696-01	-1.6163-03	8.9778-02	-1.2714-03	5.4381-02
P/POI	7.5450-01	2.0695-01	4.8587-02	4.3163-01	6.5614-03	5.5794-02	6.7749-03	3.6746-02
VALVE POS 3	PO = 1585.3	Q-INF = 2.348	P-INF = .0324	RE = .1584	TO = 1901			
P	4.4486+00	1.2083-01	2.8091+00	1.8746+00	3.1256-02	2.0376-01	1.2612-01	1.5502-01
CP	1.8807+00	3.7666-02	1.1825+00	7.6322-01	-4.7928-04	7.3063-02	3.9717-02	5.2226-02
P/POI	1.0711+00	2.7736-02	6.4482-01	4.1882-01	7.1746-03	4.6819-02	2.8949-02	3.5584-02
VALVE POS 4	PO = 1584.1	Q-INF = 2.346	P-INF = .0324	RE = .1584	TO = 1902			
P	4.0431+00	4.2953-02	2.7701+00	1.9236+00	4.2676-02	6.6719-02	1.0153-01	1.4799-01
CP	1.7095+00	4.5178-03	1.1669+00	8.0612-01	4.1998-03	1.4664-02	2.9487-02	4.9290-02
P/POI	9.2889-01	9.8694-03	6.3643-01	4.4145-01	9.8048-03	1.5379-02	2.3327-02	3.4001-02
VALVE POS 5	PO = 1583.8	Q-INF = 2.345	P-INF = .0323	RE = .1577	TO = 1906			
P	3.9019+00	4.1347-02	2.7326+00	8.9418-01	5.9105-02	4.5882-02	5.3165-02	1.3032-01
CP	1.6503+00	3.8436-03	1.1516+00	3.6757-01	1.1417-02	5.7776-03	8.8837-03	4.1790-02
P/POI	8.9699-01	9.5047-03	6.2815-01	2.0555-01	1.3587-02	1.0547-02	1.2221-02	2.9958-02
VALVE POS 6	PO = 1582.8	Q-INF = 2.342	P-INF = .0323	RE = .1570	TO = 1910			
P	3.9349+00	4.0143-02	2.2071+00	8.7627-01	5.916-01	4.3477-02	4.5170-02	4.8193-02
CP	1.6662+00	3.3481-03	9.2849-01	3.6033-01	2.1640-01	4.7717-03	5.4743-03	6.7859-03
P/POI	9.0548-01	9.2374-03	5.0788-01	2.0164-01	1.2407-01	1.0005-02	1.0394-02	1.1090-02
VALVE POS 7	PO = 1582.8	Q-INF = 2.341	P-INF = .0323	RE = .1564	TO = 1914			
P	3.8869+00	4.2953-02	2.5803-01	8.9128-01	5.4196-01	4.2275-02	4.1777-02	4.3775-02
CP	1.6464+00	4.5556-03	2.6300-01	3.6689-01	2.1769-01	4.2662-02	4.0513-03	4.9068-03
P/POI	8.9477-01	9.8879-03	1.4918-01	2.0518-01	1.2476-01	9.7319-03	9.6161-03	1.0077-02
VALVE POS 8	PO = 1580.8	Q-INF = 2.343	P-INF = .0323	RE = .1588	TO = 1897			
P	3.8568+00	3.5736+00	1.0127-01	8.4626-01	3.1476-01	3.9270-02	4.0373-02	4.0161-02
CP	1.6328+00	1.5117+00	2.9439-02	3.4747-01	1.2058-01	2.9733-03	3.5296-03	3.3539-03
P/POI	8.8749-01	8.2232-01	2.3303-02	1.9473-01	7.2429-02	9.0364-03	9.3362-03	9.2413-03
VALVE POS 9	PO = 1578.9	Q-INF = 2.340	P-INF = .0323	RE = .1591	TO = 1894			
P	3.8538+00	3.5661+00	4.9833-02	8.6427-01	2.5105-01	1.7431-01	8.8801-01	4.2169-02
CP	1.6329+00	1.5100+00	7.5027-03	3.5551-01	9.3480-02	6.0691-02	3.6597-01	4.2277-03
P/POI	8.8765-01	8.2138-01	1.1478-02	1.9907-01	5.7826-02	4.0169-02	2.0472-01	9.7129-03
VALVE POS 10	PO = 1577.9	Q-INF = 2.337	P-INF = .0322	RE = .1577	TO = 1902			
P	3.8268+00	3.4454+00	4.7632-02	8.8228-01	1.5347-01	1.2322-01	3.3638-01	5.1004-02
CP	1.6238+00	1.4608+00	6.5921-03	3.6376-01	5.1885-02	3.8938-02	1.3015-01	8.0352-03
P/POI	8.8264-01	7.9472-01	1.0987-02	2.0351-01	3.5400-02	2.8422-02	7.7589-02	1.1765-02
VALVE POS 11	PO = 1579.4	Q-INF = 2.335	P-INF = .0322	RE = .1556	TO = 1917			
P	3.7337+00	2.8299+00	4.4630-02	8.9418-01	2.5445-01	9.8976-02	2.2845-01	4.2369-02
CP	1.5850+00	1.1980+00	5.3200-03	3.6910-01	9.5167-02	2.8591-02	8.4032-02	4.3521-03
P/POI	8.6167-01	6.5310-01	1.0300-02	2.0636-01	5.8723-02	2.2842-02	5.2722-02	9.7182-03
VALVE POS 12	PO = 1578.1	Q-INF = 2.338	P-INF = .0322	RE = .1368	TO = 1908			
P	2.9797+00	2.7967+00	1.8302+00	2.3383-01	2.5045-01	4.5882-02	1.9707-01	4.3976-02
CP	1.2619+00	1.1836+00	7.6979-01	8.639-01	9.3433-02	5.8526-03	7.0581-02	5.0367-03
P/POI	6.8760-01	6.4538-01	4.2234-01	5.3959-02	5.7793-02	1.0588-02	4.5476-02	1.0148-02

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ROW	GROUP	PROJECT NO	W/CH NO	CONFIGURATION	S-ROLL	PSI	ALPHA
1.	2.	304244	10.18	1	-10.05	.00	-0.00 34.95
VALVE POS 2	PU =1584.1	Q-IMF = 2.347	P-IMF = .0324	RE = .1590	TO = 1898.		
P	2.9707+00	9.9711-01	1.4243-01	1.8486+00	3.4862-02	1.0894-01	3.1179-02
CP	1.2519+00	4.1104-01	6.8608-02	7.7381-01	1.0629-03	6.6707-02	-5.0618-04
P/PDI	6.8225-01	2.2900-01	4.4308-02	4.2454-01	6.0064-03	4.3391-02	7.1606-03
VALVE POS 3	PU =1585.1	Q-IMF = 2.349	P-IMF = .0324	RE = .1592	TO = 1897.		
P	4.4245+00	1.6718-01	2.8782+00	1.7225+00	3.2858-02	1.5147-01	1.0833-01
CP	1.8699+00	5.5255-02	1.2116+00	7.1457-01	1.4902-04	5.0742-02	3.2330-02
P/PDI	1.0154+00	3.7218-02	6.6052-01	3.9531-01	7.3407-03	3.4807-02	2.4860-02
VALVE POS 4	PU =1585.1	Q-IMF = 2.348	P-IMF = .0324	RE = .1586	TO = 1901.		
P	4.2924+00	4.6566-02	2.8106+00	1.6295+00	4.1874-02	6.0908-02	9.0340-02
CP	1.8144+00	6.0432-03	1.1833+00	6.8026-01	4.0451-03	1.2152-02	2.4649-02
P/PDI	9.8545-01	1.0691-02	6.4527-01	3.7411-01	9.6136-03	1.3983-02	2.0740-02
VALVE POS 5	PU =1584.6	Q-IMF = 2.347	P-IMF = .0324	RE = .1587	TO = 1900.		
P	4.1632+00	3.7133-02	2.7616+00	8.1751-01	4.7045-02	4.2876-02	4.4171-02
CP	1.7598+00	2.1140-03	1.1542+00	3.3448-01	6.2680-03	4.4756-03	5.0270-03
P/PDI	9.5600-01	8.5728-03	6.2955-01	1.8773-01	1.0412-02	9.8457-03	1.0143-02
VALVE POS 6	PU =1584.8	Q-IMF = 2.347	P-IMF = .0324	RE = .1584	TO = 1902.		
P	4.1692+00	3.7734-02	2.1305+00	9.1829-01	4.8308-01	4.4679-02	4.0573-02
CP	1.7624+00	2.2859-03	8.9388-01	3.7743-01	1.9201-01	5.2448-03	3.4953-03
P/PDI	9.5742-01	8.6653-03	4.8925-01	2.1088-01	1.1093-01	1.0260-02	9.3172-03
VALVE POS 7	PU =1584.8	Q-IMF = 2.347	P-IMF = .0324	RE = .1583	TO = 1903.		
P	4.1782+00	4.1347-02	6.6544-01	7.7124-01	4.6843-01	4.2476-02	4.0173-02
CP	1.7665+00	3.8270-03	2.6974-01	3.1482-01	1.8580-01	4.3078-03	3.3268-03
P/PDI	9.5958-01	9.4459-03	1.5283-01	1.7713-01	1.0758-01	9.7551-03	9.2263-03
VALVE POS 8	PU =1585.5	Q-IMF = 2.348	P-IMF = .0324	RE = .1581	TO = 1905.		
P	4.1362+00	3.8225+00	1.1207-01	7.9825-01	2.5726-01	3.9049-02	2.9973-02
CP	1.7481+00	1.6145+00	3.3950-02	3.2624-01	9.5794-02	2.8523-03	3.2373-03
P/PDI	9.4966-01	8.7764-01	2.5732-02	1.8328-01	5.9066-02	8.9703-03	9.1779-03
VALVE POS 9	PU =1585.8	Q-IMF = 2.348	P-IMF = .0324	RE = .1579	TO = 1906.		
P	4.0971+00	3.7637+00	4.7832-02	7.9225-01	2.0597-01	1.4025-01	6.7453-01
CP	1.7314+00	1.5893+00	6.5838-03	3.2495-01	7.3941-02	4.5949-02	2.7323-01
P/PDI	9.4064-01	8.6409-01	1.0982-02	1.8258-01	4.7287-02	3.2199-02	1.5488-01
VALVE POS 10	PU =1586.0	Q-IMF = 2.348	P-IMF = .0324	RE = .1579	TO = 1906.		
P	4.0400+00	3.5329+00	4.7031-02	7.5324-01	1.4386-01	1.0579-01	2.5903-01
CP	1.7068+00	1.4908+00	6.2397-03	3.0700-01	4.7475-02	3.1263-02	9.6523-02
P/PDI	9.2739-01	8.1097-01	1.0796-02	1.7291-01	3.3022-02	2.4284-02	5.9440-02
VALVE POS 11	PU =1586.0	Q-IMF = 2.348	P-IMF = .0324	RE = .1578	TO = 1907.		
P	3.8598+00	2.9234+00	4.7832-02	8.0205-01	1.9675-01	7.2329-02	1.9267-01
CP	1.6302+00	1.2314+00	6.5828-03	3.2783-01	7.0011-02	1.7017-02	6.8274-02
P/PDI	8.8611-01	6.7114-01	1.0981-02	1.8413-01	4.0111-02	1.6605-02	4.4232-02
VALVE POS 12	PU =1586.3	Q-IMF = 2.348	P-IMF = .0324	RE = .1577	TO = 1908.		
P	3.0008+00	2.9250+00	1.8497+00	2.1914-01	1.9415-01	4.1874-02	1.7229-01
CP	1.2642+00	1.2320+00	7.7402-01	7.9560-02	6.8897-02	4.0444-03	5.9587-02
P/PDI	9.8885-01	6.7145-01	4.2462-01	5.0315-02	9.0127-03	3.9550-02	1.0003-02

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RUN	GROUP	PROJECT NO	MACH NO	CONFIGURATION	S-ALPHA	S-ROLL	PSI	ALPHA
1.	3.	304244	10.18	1	-5.01	.00	-.00	39.99
VALVE POS 2 PO = 1586.5 Q-INF = 2.347 P-INF = .0324 RE = .1571 TO = 1912.								
P	2.4961+00	1.1359+00	1.7652-01	1.7616+00	3.4061-02	1.4526-01	3.4377-02	1.6104-01
CP	1.0498+00	4.7012-01	6.1410-02	7.3667-01	7.2037-04	4.8093-02	8.5227-04	5.4818-02
P/P01	5.7314-01	2.6082-01	4.0531-02	4.0648-01	7.8708-03	3.3353-02	7.8934-03	3.6978-02
VALVE POS 3 PO = 1586.6 Q-INF = 2.347 P-INF = .0324 RE = .1568 TO = 1914.								
P	4.1932+00	7.2081-01	2.8842+00	1.5395+00	3.4461-02	1.0959-01	9.6540-02	1.5181-01
CP	1.7727+00	8.3694-02	1.2150+00	6.4210-01	8.9192-04	3.2902-02	2.6184-02	5.0886-02
P/P01	9.6286-01	5.2541-02	6.6228+00	3.5350-01	7.9131-03	2.5165-02	2.0790-02	3.4858-02
VALVE POS 4 PO = 1587.0 Q-INF = 2.349 P-INF = .0324 RE = .1577 TO = 1908.								
P	4.4395+00	5.4193-02	2.8151+00	1.3144+00	4.2476-02	5.2493-02	7.9747-02	1.4277-01
CP	1.8761+00	9.2800-03	1.1846+00	5.4576-01	4.2719-03	8.5565-03	2.0158-02	4.6988-02
P/P01	1.0187+00	1.2435-02	6.4593-01	3.0159-01	9.7460-03	1.2045-02	1.8298-02	3.2759-02
VALVE POS 5 PO = 1587.3 Q-INF = 2.349 P-INF = .0324 RE = .1576 TO = 1909.								
P	4.3745+00	3.7734-02	2.6920+00	7.4686-01	4.8687-02	5.0470-02	4.4569-02	1.2892-01
CP	1.8505+00	2.2727-03	1.1322+00	3.0413-01	6.9350-03	7.7076-03	6.0335-03	4.1087-02
P/P01	1.0048+00	8.6576-03	6.1765-01	1.7136-01	1.1170-02	1.1584-02	1.0685-02	2.9578-02
VALVE POS 6 PO = 1587.3 Q-INF = 2.349 P-INF = .0324 RE = .1576 TO = 1909.								
P	4.3645+00	4.0546-02	1.9424+00	9.5500-01	4.2115-01	4.9688-02	4.4570-02	4.9598-02
CP	1.8441+00	3.4689-03	8.3433-01	3.9316-01	1.6549-01	7.3614-03	5.1827-03	7.3231-03
P/P01	1.0014+00	9.3023-03	4.5712-01	2.1934-01	9.6627-02	1.1400-02	1.0276-02	1.1380-02
VALVE POS 7 PO = 1587.3 Q-INF = 2.348 P-INF = .0324 RE = .1572 TO = 1917.								
P	4.3374+00	4.1347-02	7.1087-01	9.3492-01	4.0152-01	4.4679-02	4.1972-02	4.6586-02
CP	1.8332+00	3.8163-03	2.8891-01	3.8432-01	1.5804-01	5.2353-03	4.0824-03	6.0473-03
P/P01	9.9546-01	9.4893-03	1.6315-01	2.1457-01	9.2609-02	1.0254-02	9.6328-03	1.0692-02
VALVE POS 8 PO = 1586.5 Q-INF = 2.349 P-INF = .0324 RE = .1580 TO = 1906.								
P	4.3404+00	3.9537+00	1.3089-01	6.8721-01	2.1158-01	3.9671-02	4.1572-02	4.4177-02
CP	1.8341+00	1.6695+00	4.1935-02	2.7879-01	7.6288-02	3.0995-03	3.9097-03	5.0180-03
P/P01	9.4603-01	9.0729-01	3.0036-02	1.5770-01	4.8552-02	9.1035-03	9.5399-03	1.0138-02
VALVE POS 9 PO = 1586.0 Q-INF = 2.347 P-INF = .0324 RE = .1573 TO = 1910.								
P	4.2773+00	3.9025+00	4.9033-02	8.9739-01	1.7050-01	1.2262-01	5.0506-01	4.8193-02
CP	1.8086+00	1.6489+00	7.1009-03	3.6856-01	5.8855-02	1.8453-02	2.0140-01	6.7430-03
P/P01	9.8725-01	8.9616-01	1.1260-02	2.0600-01	3.9154-02	2.8158-02	1.1598-01	1.1067-02
VALVE POS 10 PO = 1586.0 Q-INF = 2.347 P-INF = .0324 RE = .1573 TO = 1910.								
P	4.1992+00	3.6294+00	4.5030-02	8.6628-01	1.4406-01	1.0738-01	1.9387-01	5.1807-02
CP	1.7754+00	1.5326+00	5.9555-03	3.5530-01	4.7587-02	2.9831-02	6.8811-02	8.2830-03
P/P01	9.6432-01	8.3346-01	1.0341-02	1.9893-01	3.3081-02	2.3511-02	4.4521-02	1.1897-02
VALVE POS 11 PO = 1586.0 Q-INF = 2.347 P-INF = .0324 RE = .1572 TO = 1911.								
P	4.0010+00	3.0109+00	4.3829-02	6.9467-01	1.5808-01	6.8522-02	1.7089-01	4.6185-02
CP	1.6911+00	1.2692+00	4.8859-03	2.8221-01	5.3570-02	1.5408-02	5.9026-02	5.8896-03
P/P01	9.1888-01	6.9150-01	1.0066-02	1.5954-01	3.6305-02	1.5737-02	3.9246-02	1.0607-02
VALVE POS 12 PO = 1586.0 Q-INF = 2.346 P-INF = .0324 RE = .1569 TO = 1913.								
P	3.0488+00	2.9144+00	1.7747+00	1.9630-01	1.5127-01	4.5681-02	1.7508-01	4.7390-02
CP	1.2856+00	1.2283+00	7.4257-01	6.9872-02	5.0681-02	5.6792-03	6.0830-02	6.4073-03
P/P01	7.0034-01	6.6946-01	4.0766-01	4.5091-02	3.4748-02	1.0493-02	4.0218-02	1.0886-02

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VALVE POS	GROUP	PROJECT NO	MACH NO	CONFIGURATION	S-ALPHA	S-ROLL	PSI	ALPHA
1.	4.	304244	10-18	1	.01	.00	-.00	45.01
VALVE POS 2	PO = 1585.5	Q-INF = 2.347	P-INF = .0324	RE = .1574	TO = 1909.			
P	2.0365+00	1.4451+00	1.7312-01	1.6685+00	3.2257-02	1.1240-01	3.7975-02	1.5120-01
CP	8.5409-01	6.0208-01	5.9983-02	6.9725-01	-4.3645-05	3.4109-02	2.3928-03	5.0646-02
P/P01	4.6777-01	3.3193-01	3.9763-02	3.8324-01	7.4092-03	2.5817-02	8.7224-03	3.4730-02
VALVE POS 3	PO = 1584.8	Q-INF = 2.346	P-INF = .0324	RE = .1577	TO = 1907.			
P	3.7817+00	3.2716-01	2.8797+00	1.4795+00	3.4862-02	8.5953-02	7.6749-02	1.4578-01
CP	1.5982+00	1.2567-01	1.2137+00	6.1685-01	1.0701-03	2.2898-02	1.8925-02	4.8352-02
P/P01	8.6887-01	7.5167-02	6.6162-01	3.3991-01	8.0097-03	1.9748-02	1.7633-02	3.3494-02
VALVE POS 4	PO = 1584.6	Q-INF = 2.345	P-INF = .0323	RE = .1575	TO = 1908.			
P	4.4215+00	6.9045-02	2.7761+00	1.0713+00	4.1474-02	5.0089-02	6.5956-02	1.3313-01
CP	1.8714+00	1.5649-02	1.1699+00	4.4100-01	3.8931-03	7.5665-03	1.4332-02	4.2974-02
P/P01	1.0161+00	1.5868-02	6.3798-01	2.4621-01	9.5312-03	1.1511-02	1.5158-02	3.0596-02
VALVE POS 5	PO = 1584.6	Q-INF = 2.346	P-INF = .0323	RE = .1578	TO = 1906.			
P	4.4365+00	4.0544-02	2.6530+00	6.8724-01	4.7484-02	5.2293-02	4.5170-02	1.1988-01
CP	1.8774+00	3.4931-03	1.1171+00	2.7917-01	6.4516-03	8.5015-03	5.4650-03	3.7313-02
P/P01	1.0194+00	9.3157-03	6.0757-01	1.5791-01	1.0910-02	1.2015-02	1.0379-02	2.7544-02
VALVE POS 6	PO = 1584.8	Q-INF = 2.346	P-INF = .0324	RE = .1590	TO = 1905.			
P	4.4335+00	4.0946-02	1.9428+00	8.8434-01	3.7206-01	5.3695-02	4.6969-02	4.8193-02
CP	1.8757+00	3.6596-03	8.1419-01	3.6309-01	1.4477-01	9.0933-03	6.2265-03	6.7482-03
P/P01	1.0184+00	9.4055-03	4.4628-01	2.0314-01	8.5466-02	1.2334-02	1.0789-02	1.1070-02
VALVE POS 7	PO = 1584.6	Q-INF = 2.346	P-INF = .0324	RE = .1580	TO = 1905.			
P	4.4305+00	4.3354-02	7.7972-01	8.6106-01	3.4782-01	4.7685-02	4.4171-02	4.6787-02
CP	1.8747+00	4.6890-03	3.1856-01	3.5323-01	1.3446-01	6.5349-03	5.0370-03	6.1523-03
P/P01	1.0179+00	9.9604-03	1.7414-01	1.9782-01	7.9909-02	1.0955-02	1.0148-02	1.0749-02
VALVE POS 8	PO = 1583.8	Q-INF = 2.346	P-INF = .0324	RE = .1586	TO = 1900.			
P	4.4586+00	4.0277+00	1.5811-01	8.3517-01	1.7491-01	4.5981-02	4.3771-02	4.6586-02
CP	1.8874+00	1.7029+00	5.3597-02	3.4217-01	6.0759-02	5.5943-03	4.7803-03	6.0655-03
P/P01	1.0248+00	9.2532-01	3.6323-02	1.9187-01	4.0184-02	1.0449-02	1.0010-02	1.0703-02
VALVE POS 9	PO = 1583.6	Q-INF = 2.346	P-INF = .0324	RE = .1584	TO = 1900.			
P	4.4095+00	3.9749+00	5.2835-02	8.0787-01	1.4125-01	1.1260-01	3.8974-01	5.1004-02
CP	1.8659+00	1.6806+00	8.7324-03	3.3059-01	4.6423-02	3.4209-02	1.5235-01	7.9518-03
P/P01	1.0132+00	9.1333-01	1.2140-02	1.8563-01	3.2456-02	2.5873-02	8.9553-02	1.1720-02
VALVE POS 10	PO = 1575.9	Q-INF = 2.334	P-INF = .0322	RE = .1575	TO = 1902.			
P	4.2894+00	3.7048+00	4.4630-02	7.6592-01	1.3785-01	9.3366-02	1.5789-01	5.3012-02
CP	1.8241+00	1.5736+00	5.3316-03	3.1439-01	4.5272-02	2.6214-02	5.3863-02	8.9232-03
P/P01	9.9865-01	8.5585-01	1.0307-02	1.7682-01	3.1836-02	2.1563-02	3.6967-02	1.2243-02
VALVE POS 11	PO = 1574.9	Q-INF = 2.332	P-INF = .0322	RE = .1570	TO = 1905.			
P	4.1031+00	2.9672+00	4.4430-02	5.9833-01	1.2542-01	6.6118-02	1.6269-01	4.6185-02
CP	1.7460+00	1.2588+00	5.2639-03	2.4282-01	4.0000-02	1.4565-02	5.5984-02	6.0166-03
P/P01	9.4852-01	6.8592-01	1.0271-02	1.3823-01	1.1289-02	1.5284-02	3.7609-02	1.0677-02
VALVE POS 12	PO = 1582.3	Q-INF = 2.344	P-INF = .0323	RE = .1586	TO = 1899.			
P	3.0939+00	2.8752+00	1.6966+00	1.7603-01	1.2001-01	5.2093-02	1.9147-01	4.9398-02
CP	1.3060+00	1.2127+00	7.0993-01	6.1298-02	3.7404-02	8.4309-03	7.8867-02	7.2813-03
P/P01	7.1139-01	6.6114-01	3.9011-01	4.0475-02	2.7595-02	1.1198-02	4.4026-02	1.1358-02

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RUN	GROUP	PROJECT NO	MACH NO	CONFIGURATION	S-ALPHA	S-ROLL	PSI	ALPHA
1.	5.	304244	10.18	1	4.97	.00	-.00	49.97
VALVE POS	2	PO -1585.8	Q-IMF = 2.351	P-IMF = .0324	RF = .1602	TO = 1891.		
P	1.6190+00	1.8358+00	1.6631-01	1.6175+00	3.0053-02	8.9460-02	4.4370-02	1.3956-01
CP	6.7473-01	7.6693-01	5.6937-02	6.7404-01	-1.0093-03	2.4467-02	5.0793-03	4.5560-02
P/PO1	3.7116-01	4.2086-01	3.8126-02	3.7081-01	6.8897-03	2.0623-07	1.0172-02	3.1993-02
VALVE POS	3	PU -1587.5	Q-IMF = 2.355	P-IMF = .0325	RE = .1609	TO = 1888.		
P	3.1690+00	4.4960-01	2.8302+00	1.3594+00	3.5263-02	6.7720-02	6.5556-02	1.3133-01
CP	1.2320+00	1.7714-01	1.1881+00	5.6351-01	1.1849-03	1.4464-02	1.4050-02	4.1979-02
P/PO1	7.2546-01	1.0293-01	6.4790-01	3.1121-01	6.0726-03	1.5503-07	1.5008-02	3.0064-02
VALVE POS	4	PO -1589.0	Q-IMF = 2.357	P-IMF = .0325	RE = .1612	TO = 1887.		
P	4.3164+00	8.9117-02	2.7551+00	8.3726-01	4.1674-02	5.0289-02	5.7761-02	1.1747-01
CP	1.8173+00	2.4015-02	1.1550+00	3.4139-01	3.8891-03	7.5434-03	1.0714-02	3.6043-02
P/PO1	9.8711-01	2.0380-02	6.3005-01	1.9147-01	9.5304-03	1.1501-02	1.3709-02	2.6864-02
VALVE POS	5	PO -1588.5	Q-IMF = 2.358	P-IMF = .0325	RE = .1614	TO = 1887.		
P	4.4606+00	5.2988-02	2.6140+00	6.3024-01	4.7685-02	5.6100-02	4.7169-02	1.0462-01
CP	1.8781+00	8.6840-03	1.0949+00	2.5151-01	6.4346-03	1.0004-02	6.2157-03	3.0587-02
P/PO1	1.0199+00	1.2116-02	5.9768-01	1.4410-01	1.0903-02	1.2827-02	1.0785-02	2.3421-02
VALVE POS	6	PO -1585.1	Q-IMF = 2.352	P-IMF = .0324	RE = .1614	TO = 1883.		
P	4.4395+00	4.4157-02	1.9323+00	8.2092-01	3.2498-01	5.7102-02	4.9367-02	4.6586-02
CP	1.8735+00	4.9815-03	8.0766-01	3.3519-01	1.2436-01	1.0484-02	7.1963-03	6.0142-03
P/PO1	1.0174+00	1.0120-02	4.4284-01	1.8814-01	7.4477-02	1.3086-02	1.1314-02	1.0677-02
VALVE POS	7	PO -1582.6	Q-IMF = 2.348	P-IMF = .0324	RE = .1610	TO = 1884.		
P	4.4576+00	4.8974-02	8.8279-01	7.8599-01	2.4593-01	5.1492-02	4.6369-02	5.0602-02
CP	1.8844+00	7.0642-03	3.6213-01	3.2091-01	1.1222-01	8.1367-03	5.9549-03	7.5776-03
P/PO1	1.0233+00	1.1243-02	2.0265-01	1.8049-01	6.7933-02	1.1820-02	1.0645-02	1.1616-02
VALVE POS	8	PO -1580.6	Q-IMF = 2.345	P-IMF = .0323	RE = .1608	TO = 1884.		
P	4.5876+00	4.0261+00	1.4533-01	7.5569-01	1.3324-01	4.3077-02	4.4770-02	4.7791-02
CP	1.8996+00	1.7028+00	6.9492-02	3.0841-01	4.3018-02	4.5759-03	5.2980-03	6.5861-03
P/PO1	1.0315+00	9.2542-01	4.4897-02	1.7370-01	3.0625-02	9.9013-03	1.0291-02	1.0985-02
VALVE POS	9	PO -1579.1	Q-IMF = 2.343	P-IMF = .0323	RE = .1606	TO = 1884.		
P	4.4906+00	4.0111+00	5.8239-02	7.2377-01	1.1360-01	9.8776-02	3.0000-01	5.0803-02
CP	1.9027+00	1.6980+00	1.1084-02	2.9510-01	3.5692-02	2.8364-02	1.1424-01	7.8908-03
P/PO1	1.0332+00	9.2283-01	1.3399-02	1.6652-01	2.6137-02	2.2725-02	6.9022-02	1.1688-02
VALVE POS	10	PO -1577.6	Q-IMF = 2.341	P-IMF = .0323	RE = .1608	TO = 1882.		
P	4.4155+00	3.7727+00	4.6231-02	6.8042-01	1.2081-01	8.4350-02	1.3451-01	5.5020-02
CP	1.8120+00	1.5975+00	5.9539-03	2.7681-01	3.7808-02	2.2234-02	4.3657-02	9.7077-03
P/PO1	1.0167+00	8.6865-01	1.0644-02	1.5668-01	2.7817-02	1.9421-02	3.0970-02	1.2668-02
VALVE POS	11	PO -1579.4	Q-IMF = 2.345	P-IMF = .0323	RE = .1613	TO = 1880.		
P	4.2593+00	2.9129+00	4.8632-02	5.2226-01	1.0258-01	6.6518-02	1.5010-01	5.2209-02
CP	1.8029+00	1.2286+00	6.9523-03	2.0897-01	2.9963-02	1.4581-02	5.0231-02	8.4778-03
P/PO1	9.7941-01	6.6980-01	1.1103-02	1.2009-01	2.3549-02	4.5296-02	3.4515-02	1.2005-02
VALVE POS	12	PO -1581.6	Q-IMF = 2.348	P-IMF = .0324	RE = .1617	TO = 1879.		
P	3.2951+00	2.8948+00	1.5990+00	1.5977-01	9.5971-02	5.7703-02	1.7388-01	5.1000-02
CP	1.3895+00	1.2190+00	6.6718-01	5.4251-02	2.7081-02	1.0784-02	6.0262-02	7.9308-03
P/PO1	7.5654-01	6.6463-01	3.6712-01	3.6682-02	2.2034-02	1.3248-02	3.9923-02	1.1710-02

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RUN	GROUP	PROJECT NO	MACH NO	CONFIGURATION	S-ALPHA	S-ROLL	PSI	ALPHA
1.	6.	304244	10.18	1	10.05	.00	-.00	55.05
VALVE POS 2	PO = 1586.5	Q-INF = 2.351	P-INF = .0324	RE = .1591	TO = 1899.			
P	1.2015+00	2.2642+00	1.4330-01	1.5095+00	3.0053-02	6.9123-02	4.7169-02	1.1667-01
CP	4.9737-01	9.4949-01	4.7172-07	6.2739-01	-1.0044-03	1.5617-02	6.2769-03	3.5844-02
P/P01	2.7553-01	5.1923-01	3.2860-02	3.4615-01	6.8918-03	1.5851-02	1.0817-02	2.6754-02
VALVE POS 3	PO = 1585.1	Q-INF = 2.349	P-INF = .0324	RE = .1592	TO = 1897.			
P	2.4751+00	6.0696-01	2.7641+00	1.3324+00	3.7467-02	5.4500-02	5.5163-02	1.1365-01
CP	1.0400+00	2.4462-01	1.1630+00	-5.5348-01	2.1609-03	1.0264-02	9.6522-03	3.4598-02
P/P01	5.6801-01	1.3929-01	6.3434-01	3.0578-01	8.5383-03	1.2966-02	1.2659-02	2.6083-02
VALVE POS 4	PO = 1583.8	Q-INF = 2.347	P-INF = .0324	RE = .1593	TO = 1896.			
P	4.0130+00	1.1963-01	2.6950+00	7.1916-01	4.3678-02	5.2493-02	5.5263-02	1.0100-01
CP	1.6959+00	3.7174-02	1.1344+00	2.9260-01	4.8178-03	8.5736-03	9.8814-03	2.9241-07
P/P01	9.2159-01	2.7472-02	6.1891-01	1.6515-01	1.0031-02	1.2055-02	1.2760-02	2.3196-02
VALVE POS 5	PO = 1583.3	Q-INF = 2.347	P-INF = .0324	RE = .1593	TO = 1894.			
P	4.4035+00	7.5468-02	2.6245+00	5.6621-01	4.7084-02	5.5098-02	5.8261-02	8.9558-02
CP	1.8623+00	1.8365-02	1.1044+00	2.2746-01	6.2710-03	9.6857-03	1.1161-02	2.4369-02
P/P01	1.0114+00	1.7333-02	6.0278-01	1.3005-01	1.0814-02	1.2655-02	1.3450-02	2.0570-02
VALVE POS 6	PO = 1582.6	Q-INF = 2.346	P-INF = .0324	RE = .1598	TO = 1892.			
P	4.4065+00	5.8608-02	2.0074+00	7.4445-01	2.7809-01	5.9105-02	5.9260-02	5.9430-02
CP	1.8642+00	1.1188-02	8.4174-01	3.0349-01	1.0473-01	1.1400-02	1.1944-02	1.1541-02
P/P01	1.0124+00	1.3463-02	4.6118-01	1.7103-01	6.3890-02	1.3579-02	1.3683-02	1.3655-02
VALVE POS 7	PO = 1581.8	Q-INF = 2.345	P-INF = .0323	RE = .1597	TO = 1892.			
P	4.3945+00	5.9411-02	8.0926-01	7.0169-01	2.4824-01	5.5699-02	5.4564-02	6.4859-02
CP	1.8600+00	1.1542-02	3.3127-01	2.8541-01	9.2058-02	9.9592-03	9.4750-03	1.3865-02
P/P01	1.0101+00	1.3656-02	1.8601-01	1.6129-01	5.7059-02	1.2802-02	1.2542-02	1.4908-02
VALVE POS 8	PO = 1581.3	Q-INF = 2.345	P-INF = .0323	RE = .1598	TO = 1891.			
P	4.4726+00	3.9387+00	2.4656-01	6.7540-01	9.8776-02	4.8897-02	4.7568-02	5.7831-02
CP	1.8937+00	1.6660+00	9.1365-02	2.7426-01	2.8336-02	7.0589-03	6.4965-03	1.0874-02
P/P01	1.0283+00	9.0550-01	5.6685-02	1.5528-01	2.2709-02	1.1239-02	1.0936-02	1.3295-02
VALVE POS 9	PO = 1580.8	Q-INF = 2.344	P-INF = .0323	RE = .1599	TO = 1890.			
P	4.5146+00	3.9930+00	6.8646-02	6.4489-01	9.1362-02	9.1162-02	2.5363-01	5.5422-02
CP	1.9120+00	1.6893+00	1.5492-02	2.6130-01	2.5182-02	2.5097-02	9.4402-02	9.8508-03
P/P01	1.0381+00	9.1819-01	1.5785-02	1.4829-01	2.1009-02	2.0963-02	5.8323-02	1.2744-02
VALVE POS 10	PO = 1580.6	Q-INF = 2.344	P-INF = .0323	RE = .1599	TO = 1890.			
P	4.4966+00	3.8602+00	5.2035-02	5.9953-01	1.0479-01	7.7738-02	1.1352-01	5.4016-02
CP	1.9047+00	1.6331+00	8.4095-03	2.4199-01	3.0915-02	1.9376-02	3.4643-02	9.2548-03
P/P01	1.0342+00	8.8780-01	1.1967-02	1.3789-01	2.4100-02	1.7879-02	2.6109-02	1.2423-02
VALVE POS 11	PO = 1580.1	Q-INF = 2.344	P-INF = .0323	RE = .1601	TO = 1888.			
P	4.3705+00	2.7847+00	5.4837-02	4.5080-01	8.9359-02	7.0325-02	1.2592-01	5.1807-02
CP	1.8510+00	1.1744+00	9.6073-03	1.7856-01	2.4337-02	1.6216-02	3.9936-02	8.3147-03
P/P01	1.0033+00	6.4052-01	1.2613-02	1.0369-01	2.0554-02	1.6176-02	2.8963-02	1.1916-02
VALVE POS 12	PO = 1579.4	Q-INF = 2.343	P-INF = .0323	RE = .1604	TO = 1886.			
P	3.2334+00	2.7651+00	1.4198+00	1.6238-01	7.7738-02	6.6318-02	1.3671-01	5.0201-02
CP	1.5028+00	1.1463+00	5.9048-01	5.5512-02	1.9388-02	1.4514-02	4.4556-02	7.6349-03
P/P01	8.1738-01	8.3618-01	3.2575-01	3.7360-02	1.7886-02	1.5238-02	3.1454-02	1.1550-02



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RUN	GROUP	PROJECT NO	MACH NO	CONFIGURATION	S-ALPHA	S-ROLL	PSI	ALPHA
1.	7.	304244	10.18	1	14.90	.00	-.00	59.90
VALVE POS 2	PO = 1578.1	Q-IMF = 2.341	P-IMF = .0323	RE = .1602	TO = 1806.			
P	4.2883+00	1.0467-01	1.3024+00	2.5846-02	5.6282-02	4.3171-02	8.9558-02	.0000+00
CP	3.8294-01	1.1267+00	3.0417-02	5.6752-01	-2.7511-03	5.9780-03	4.6491-03	.0000+00
P/P01	2.1387-01	6.1481-01	2.4102-02	2.9990-01	5.9514-03	1.0657-02	9.9407-03	2.0622-02
VALVE POS 3	PJ = 1582.6	Q-IMF = 2.349	P-IMF = .0324	RE = .1616	TO = 1810.			
P	1.9344+00	8.1811-01	2.6710+00	1.2004+00	3.6866-02	4.6282-02	4.7770-02	9.5382-02
CP	8.0960-01	3.2344-01	1.1231+00	4.9715-01	1.9014-03	5.9096-03	5.2660-03	2.6807-02
P/P01	4.4390-01	1.8773-01	6.1292-01	2.7545-01	8.4596-03	1.0621-02	1.0774-02	2.1887-02
VALVE POS 4	PD = 1584.6	Q-IMF = 2.353	P-IMF = .0324	RE = .1623	TO = 1877.			
P	3.6075+00	1.7141-01	2.5954+00	5.3450-01	4.4279-02	5.5098-02	4.9767-02	8.2731-02
CP	1.5193+00	5.9055-02	1.0894+00	2.1336-01	5.0272-03	9.6251-03	7.3595-03	2.1369-02
P/P01	8.2653-01	3.9272-02	5.9477-01	1.2246-01	1.0145-02	1.2624-02	1.1402-02	1.8955-02
VALVE POS 5	PD = 1585.8	Q-IMF = 2.355	P-IMF = .0325	RE = .1626	TO = 1876.			
P	4.1212+00	1.1762-01	2.5134+00	4.8934-01	5.3495-02	5.8704-02	5.3165-02	7.3695-02
CP	1.7360+00	3.6150-02	1.0534+00	1.9356-01	8.9737-03	1.1136-02	8.7834-03	1.7500-02
P/P01	9.4338-01	2.6924-02	5.7534-01	1.1179-01	1.2246-02	1.3438-02	1.2170-02	1.6870-02
VALVE POS 6	PD = 1587.0	Q-IMF = 2.355	P-IMF = .0325	RE = .1611	TO = 1886.			
P	4.2143+00	8.4300-02	2.0329+00	6.4068-01	2.6880-01	6.4314-02	6.0160-02	4.8193-02
CP	1.7761+00	2.2013-02	8.4961-01	2.5831-01	8.2536-02	1.3325-02	1.1761-02	6.6779-03
P/P01	9.6488-01	1.9301-02	4.6544-01	1.4669-01	5.1928-02	1.4725-02	1.3774-02	1.1034-02
VALVE POS 7	PD = 1588.8	Q-IMF = 2.353	P-IMF = .0324	RE = .1610	TO = 1886.			
P	4.3284+00	7.5870-02	9.7742-01	6.0155-01	1.9835-01	5.9086-02	5.0566-02	5.3815-02
CP	1.8260+00	1.8458-02	4.0166-01	2.4274-01	7.0519-02	1.1673-02	7.7024-03	9.0838-03
P/P01	9.9179-01	1.7384-02	2.2396-01	1.3829-01	4.5450-02	1.3727-02	1.1587-02	1.2331-02
VALVE POS 8	PD = 1589.3	Q-IMF = 2.352	P-IMF = .0324	RE = .1610	TO = 1886.			
P	4.4726+00	3.8150+00	3.2762-01	5.8787-01	7.7137-02	4.6082-02	4.3771-02	4.7992-02
CP	1.8874+00	1.6083+00	1.2551-01	2.3404-01	1.9007-02	5.8029-03	6.6150-03	6.6150-03
P/P01	1.0252+00	8.7442-01	7.5093-01	1.3360-01	1.7680-02	1.0362-02	1.0033-02	1.1000-02
VALVE POS 9	PD = 1584.6	Q-IMF = 2.351	P-IMF = .0324	RE = .1612	TO = 1886.			
P	4.4816+00	3.9658+00	8.5057-02	5.6340-01	7.3931-02	8.8357-07	1.9507-01	4.5783-02
CP	1.8922+00	1.6728+00	2.2384-02	2.2582-01	1.7622-02	2.3787-02	6.9171-02	5.6809-03
P/P01	1.0275+00	9.0925-01	1.9501-02	1.2917-01	1.6950-02	2.0258-02	4.4724-02	1.0491-02
VALVE POS 10	PD = 1584.3	Q-IMF = 2.351	P-IMF = .0324	RE = .1612	TO = 1884.			
P	4.4876+00	3.9100+00	7.0247-02	5.2105-01	8.8758-02	7.2329-02	9.3538-02	5.1807-02
CP	1.8951+00	1.6494+00	1.6090-02	2.0784-01	2.3964-02	1.6975-02	2.5997-02	8.2464-03
P/P01	1.0290+00	8.2659-01	1.6108-02	1.1948-01	2.8353-02	1.6296-02	2.1449-02	1.1880-02
VALVE POS 11	PD = 1583.6	Q-IMF = 2.350	P-IMF = .0324	RE = .1613	TO = 1883.			
P	4.4996+00	2.5569+00	6.8446-02	3.8417-01	7.7939-02	7.6736-02	9.8934-02	4.9598-02
CP	1.9009+00	1.0742+00	1.5334-02	1.8968-01	1.9374-02	1.8862-02	2.8308-02	7.3145-03
P/P01	1.0322+00	5.8653-01	1.5701-02	8.8125-02	1.7879-02	1.7603-02	2.2695-02	1.1378-02
VALVE POS 12	PD = 1583.3	Q-IMF = 2.349	P-IMF = .0324	RE = .1611	TO = 1884.			
P	3.9169+00	2.5750+00	1.2146+00	1.4451-01	6.5717-02	7.7337-02	9.9134-02	4.8193-02
CP	1.6534+00	1.0822+00	5.0319-01	4.7719-02	1.8181-02	1.9127-02	2.8404-02	6.7218-03
P/P01	8.9874-01	2.9084-01	2.7878-01	3.3159-02	1.5079-02	1.7745-02	2.2747-02	1.1058-02

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RUN	GROUP	PROJECT NO	MACH NO	CONFIGURATION	S-ALPHA	S-ROLL	PSI	ALPHA
1.	8.	304244	10.18	1	-14.99	179.98	.00	.01
VALVE POS 2	PO = 1582.3	Q-IMF = 2.345	P-IMF = .0323	RE = .1590	TO = 1897.			
P	4.4275+00	2.4728-01	1.3858+00	1.5155+00	2.0036-02	1.4899+00	1.7388-02	1.5368+00
CP	1.8745+00	9.1670-02	5.7723-01	6.3754-01	-5.2456-03	6.2163-01	-6.3746-03	6.4162-01
P/PO1	1.0179+00	5.6847-02	3.1858-01	3.4839-01	4.6060-03	3.4252-01	3.9974-03	3.5329-01
VALVE POS 3	PO = 1581.1	Q-IMF = 2.343	P-IMF = .0323	RE = .1587	TO = 1898.			
P	3.2471+00	4.7770-02	1.4624+00	1.4645+00	2.9452-02	1.2149+00	1.5097+00	1.5563+00
CP	1.3723+00	6.6008-03	6.1045-01	6.1134-01	-1.2184-03	5.0483-01	6.3076-01	6.5056-01
P/PO1	7.4713-01	1.0992-02	3.3649-01	3.9697-01	6.7769-03	2.7955-01	3.4743-01	3.5811-01
VALVE POS 4	PO = 1579.6	Q-IMF = 2.340	P-IMF = .0323	RE = .1584	TO = 1899.			
P	1.5259+00	3.1311-02	1.4774+00	2.4938+00	3.3860-02	2.6527-01	1.3493+00	1.5609+00
CP	6.3826-01	-4.1083-04	6.1752-01	1.0518+00	6.7835-04	9.9565-02	5.6281-01	6.5320-01
P/PO1	3.5157-01	7.2122-03	3.4030-01	5.7441-01	7.7993-03	6.1102-02	3.1080-01	3.5953-01
VALVE POS 5	PU = 1518.6	Q-IMF = 2.339	P-IMF = .0323	RE = .1583	TO = 1899.			
P	1.2466+00	2.8100-02	1.5209+00	1.0653+00	3.8268-02	3.8068-02	2.6682-01	1.3486+00
CP	5.1922-01	-1.7756-03	6.3654-01	4.4173-01	2.5722-03	2.4865-03	1.0030-01	5.6287-01
P/PO1	2.8731-01	6.4766-03	3.5055-01	2.4554-01	8.8201-03	8.7740-03	6.1498-02	3.1084-01
VALVE POS 6	PO = 1580.4	Q-IMF = 2.341	P-IMF = .0323	RE = .1583	TO = 1900.			
P	1.3156+00	2.6896-02	1.2522+00	1.5125+00	1.5410+00	3.5263-02	4.9567-02	2.6526-01
CP	5.4820-01	-2.3019-03	5.2109-01	6.3228-01	6.4448-01	1.2722-03	7.3824-03	9.9518-02
P/PO1	3.0293-01	6.1927-03	2.8831-01	3.4825-01	3.5482-01	8.1192-03	1.1413-02	6.1076-02
VALVE POS 7	PU = 1583.8	Q-IMF = 2.346	P-IMF = .0324	RE = .1586	TO = 1900.			
P	1.4839+00	2.7698-02	2.6578-01	1.5185+00	1.5470+00	3.7266-02	2.9180-02	4.1165-02
CP	6.1865-01	-1.9848-03	9.9488-02	6.3341-01	6.4558-01	2.0931-03	-1.2680-03	3.7547-03
P/PO1	3.4090-01	6.3635-03	6.1060-02	3.4886-01	3.5542-01	8.5616-03	6.7499-03	9.4572-03
VALVE POS 8	PO = 1586.0	Q-IMF = 2.350	P-IMF = .0324	RE = .1590	TO = 1899.			
P	1.4839+00	1.4693+00	5.4430-02	1.5095+00	1.3716+00	4.0272-02	2.7582-02	3.2731-02
CP	6.1769-01	6.1148-01	5.1176-03	6.2859-01	5.6993-01	3.3480-03	-2.0524-03	1.3899-04
P/PO1	3.4038-01	3.3704-01	1.0192-02	3.4626-01	3.1464-01	9.2380-03	6.3270-03	7.5082-03
VALVE POS 9	PO = 1587.8	Q-IMF = 2.353	P-IMF = .0324	RE = .1594	TO = 1898.			
P	1.5229+00	1.5070+00	3.6825-02	1.5185+00	1.5365+00	1.5258+00	2.5321+00	2.9518-02
CP	6.3352-01	6.2675-01	1.0623-03	6.3164-01	6.3932-01	6.3474-01	1.0625+00	1.2433-03
P/PO1	3.4892-01	3.4527-01	8.4371-03	3.4741-01	3.5205-01	3.4958-01	5.8014-01	6.7630-03
VALVE POS 10	PO = 1589.5	Q-IMF = 2.355	P-IMF = .0325	RE = .1594	TO = 1899.			
P	1.5199+00	1.5206+00	3.6024-02	1.5155+00	1.5500+00	1.5482+00	1.5235+00	4.3976-02
CP	6.3160-01	6.3188-01	1.5069-03	6.2972-01	6.4439-01	6.4361-01	6.3311-01	4.8835-03
P/PO1	3.4788-01	3.4803-01	8.2454-03	3.4687-01	3.5478-01	3.5438-01	3.4870-01	1.0065-02
VALVE POS 11	PO = 1586.5	Q-IMF = 2.350	P-IMF = .0324	RE = .1585	TO = 1903.			
P	1.5319+00	1.3109+00	3.2822-02	1.2664+00	1.5485+00	1.3285+00	1.3013+00	3.5341-02
CP	6.3821-01	5.4413-01	1.7928-04	5.2520-01	6.4528-01	5.5164-01	5.4006-01	1.2516-03
P/PO1	3.5144-01	3.0073-01	7.5298-03	2.9052-01	3.5523-01	3.0477-01	2.9853-01	8.1076-03
VALVE POS 12	PO = 1582.1	Q-IMF = 2.343	P-IMF = .0323	RE = .1579	TO = 1904.			
P	1.3337+00	1.5040+00	1.5224+00	2.2701-01	1.5575+00	2.8491-01	1.5670+00	3.0120-02
CP	5.5551-01	6.2820-01	6.3609-01	8.3112-02	6.5107-01	1.0783-01	-6.5510-01	-9.3301-04
P/PO1	3.0686-01	3.4604-01	3.5029-01	5.2274+00	3.3238+01	6.5553-02	3.6053-01	6.9303-03

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RUN	GROUP	PROJECT NO	MACH NO	CONFIGURATION	S-ALPHA	S-ROLL	PSI	ALPHA
1.	9.	304244	10.16	1	-12.00	179.98	.00	3.00
VALVE POS 2 PO = 1578.1 Q-IMF = 2.338 RE = .0322 RE = .1584 TO = 1898.								
P	4.4666+00	3.0268-01	1.0420+00	1.5695+00	3.7667-02	1.2538+00	2.3784-02	1.2403+00
CP	1.8965+00	1.1566-01	4.3184-01	6.5745-01	2.3185-03	5.2243-01	-3.6189-03	5.1664-01
P/PDI	1.0297+00	6.9777-02	2.4021-01	3.6162-01	8.6835-03	2.8904-01	5.4830-03	2.8592-01
VALVE POS 3 PO = 1580.1 Q-IMF = 2.342 RE = .0323 RE = .1589 TO = 1896.								
P	3.4723+00	5.6200-02	1.6170+00	1.5425+00	2.9452-02	1.0057+00	1.2113+00	1.2553+00
CP	1.5691+00	1.0209-02	6.7675-01	6.4492-01	1.2132-03	4.1570-01	3.0347-01	5.2229-01
P/PDI	7.9937-01	1.2931-02	3.7223-01	3.5507-01	6.7798-03	2.3152-01	2.7883-01	2.8897-01
VALVE POS 4 PO = 1583.3 Q-IMF = 2.347 RE = .0324 RE = .1598 TO = 1892.								
P	1.7602+00	3.1311-02	1.6425+00	2.3557+00	3.5864-02	2.5145-01	1.1182+00	1.3080+00
CP	7.3604-01	-4.5213-04	6.8591-01	9.8973-01	1.4872-03	9.3323-02	4.6255-01	5.4340-01
P/PDI	5.0420-01	7.1901-03	3.7718-01	5.4092-01	8.2355-03	5.7740-02	2.5678-01	3.0036-01
VALVE POS 5 PO = 1584.6 Q-IMF = 2.351 RE = .0324 RE = .1607 TO = 1887.								
P	1.5019+00	3.1713-02	1.6966+00	1.0053+00	4.0071-02	4.5481-02	2.4324-01	1.0747+00
CP	6.2515-01	-2.9882-04	7.0799-01	4.1190-01	3.2571-03	5.5585-03	8.9690-02	4.4341-01
P/PDI	3.4444-01	7.2730-03	3.8409-01	2.3056-01	9.1899-03	1.0431-02	5.5784-02	2.4647-01
VALVE POS 6 PO = 1585.5 Q-IMF = 2.353 RE = .0324 RE = .1612 TO = 1885.								
P	1.6130+00	2.9706-02	1.3948+00	1.4705+00	3.7791+00	4.9288-02	6.1159-02	2.3996-01
CP	6.7185-01	-1.1633-03	5.7910-01	6.1126-01	5.7244-01	7.1604-03	1.2207-02	8.8209-02
P/PDI	3.6962-01	6.8078-03	3.1982-01	3.3695-01	3.1603-01	1.1294-02	1.4013-02	5.4987-02
VALVE POS 7 PO = 1588.3 Q-IMF = 2.351 RE = .0324 RE = .1619 TO = 1879.								
P	1.7181+00	1.9269-02	2.6818-01	1.5275+00	1.4721+00	2.0036-02	1.9987-02	2.2691-02
CP	7.1712-01	-5.5935-03	1.0029-01	6.3600-01	6.1244-01	-5.2672-03	-5.2880-03	-4.1377-03
P/PDI	3.9404-01	4.4191-03	6.1504-02	3.5031-01	3.3781-01	4.5930-03	4.5838-03	5.2039-03
VALVE POS 8 PO = 1582.8 Q-IMF = 2.348 RE = .0324 RE = .1606 TO = 1887.								
P	1.7482+00	1.7316+00	4.1227-02	1.5385+00	1.1648+00	3.0235-02	2.2185-02	6.0843-02
CP	7.3076-01	7.2632-01	3.7683-03	6.4059-01	4.8228-01	-9.0542-04	-4.3418-03	1.2123-02
P/PDI	4.0137-01	3.9898-01	9.4655-03	3.5277-01	2.6742-01	6.9461-03	5.0936-03	1.3969-02
VALVE POS 9 PO = 1581.6 Q-IMF = 2.346 RE = .0323 RE = .1601 TO = 1889.								
P	1.7452+00	1.7332+00	2.8219-02	1.5185+00	1.3716+00	1.3091+00	3.1430+00	3.0120-02
CP	7.3022-01	7.2514-01	-1.7602-03	6.3357-01	5.7098-01	5.4431-01	1.3261+00	-9.4944-04
P/PDI	4.0108-01	3.9834-01	6.4852-03	3.4894-01	3.1523-01	3.0046-01	7.2232-01	6.9223-03
VALVE POS 10 PO = 1580.4 Q-IMF = 2.344 RE = .0323 RE = .1598 TO = 1890.								
P	1.7332+00	1.7679+00	2.9820-02	1.5155+00	1.3597+00	1.3599+00	1.3328+00	3.0522-02
CP	7.2577-01	7.4061-01	-1.0663-03	6.3287-01	5.6638-01	5.6649-01	5.5494-01	-7.6664-04
P/PDI	1.9867-01	4.0667-01	6.8593-03	3.4860-01	3.1275-01	3.1281-01	3.0658-01	7.0208-03
VALVE POS 11 PO = 1582.1 Q-IMF = 2.346 RE = .0324 RE = .1600 TO = 1890.								
P	1.7181+00	1.4979+00	3.1221-02	1.2454+00	1.3821+00	1.1298+00	1.0402+00	3.0723-02
CP	7.1825-01	6.2468-01	-4.8310-04	5.1704-01	5.7533-01	4.6778-01	4.2956-01	-6.9533-04
P/PDI	3.9478-01	3.4418-01	7.1736-03	2.8615-01	3.1757-01	2.5495-01	2.3899-01	7.0592-03
VALVE POS 12 PO = 1583.1 Q-IMF = 2.348 RE = .0324 RE = .1603 TO = 1889.								
P	1.4809+00	1.6277+00	1.5404+00	2.2620-01	1.3552+00	2.4423-01	1.2818+00	3.1727-02
CP	6.1694-01	6.7946-01	6.4232-01	8.2555-02	5.6360-01	9.0234-02	5.3216-01	-2.7726-04
P/PDI	3.4001-01	3.1371-01	3.5369-01	5.1937-02	3.1115-01	2.4077-02	2.9430-01	7.2846-03

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VALVE POS	PO	PU	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR	BS	BT	BU	BV	BW	BX	BY	BZ	CA	CB	CC	CD	CE	CF	CG	CH	CI	CJ	CK	CL	CM	CN	CO	CP	CQ	CR	CS	CT	CU	CV	CW	CX	CY	CZ	DA	DB	DC	DD	DE	DF	DG	DH	DI	DJ	DK	DL	DM	DN	DO	DP	DP01	DP02	DP03	DP04	DP05	DP06	DP07	DP08	DP09	DP10	DP11	DP12	DP13	DP14	DP15	DP16	DP17	DP18	DP19	DP20	DP21	DP22	DP23	DP24	DP25	DP26	DP27	DP28	DP29	DP30	DP31	DP32	DP33	DP34	DP35	DP36	DP37	DP38	DP39	DP40	DP41	DP42	DP43	DP44	DP45	DP46	DP47	DP48	DP49	DP50	DP51	DP52	DP53	DP54	DP55	DP56	DP57	DP58	DP59	DP60	DP61	DP62	DP63	DP64	DP65	DP66	DP67	DP68	DP69	DP70	DP71	DP72	DP73	DP74	DP75	DP76	DP77	DP78	DP79	DP80	DP81	DP82	DP83	DP84	DP85	DP86	DP87	DP88	DP89	DP90	DP91	DP92	DP93	DP94	DP95	DP96	DP97	DP98	DP99	DP100
VALVE POS 2	PO = 1503.8	PU = 1503.8	Q = 1503.8	R = 1503.8	S = 1503.8	T = 1503.8	U = 1503.8	V = 1503.8	W = 1503.8	X = 1503.8	Y = 1503.8	Z = 1503.8	AA = 1503.8	AB = 1503.8	AC = 1503.8	AD = 1503.8	AE = 1503.8	AF = 1503.8	AG = 1503.8	AH = 1503.8	AI = 1503.8	AJ = 1503.8	AK = 1503.8	AL = 1503.8	AM = 1503.8	AN = 1503.8	AO = 1503.8	AP = 1503.8	AP01	AP02	AP03	AP04	AP05	AP06	AP07	AP08	AP09	AP10	AP11	AP12	AP13	AP14	AP15	AP16	AP17	AP18	AP19	AP20	AP21	AP22	AP23	AP24	AP25	AP26	AP27	AP28	AP29	AP30	AP31	AP32	AP33	AP34	AP35	AP36	AP37	AP38	AP39	AP40	AP41	AP42	AP43	AP44	AP45	AP46	AP47	AP48	AP49	AP50	AP51	AP52	AP53	AP54	AP55	AP56	AP57	AP58	AP59	AP60	AP61	AP62	AP63	AP64	AP65	AP66	AP67	AP68	AP69	AP70	AP71	AP72	AP73	AP74	AP75	AP76	AP77	AP78	AP79	AP80	AP81	AP82	AP83	AP84	AP85	AP86	AP87	AP88	AP89	AP90	AP91	AP92	AP93	AP94	AP95	AP96	AP97	AP98	AP99	AP100																																																																														
VALVE POS 3	PO = 1584.8	PU = 1584.8	Q = 1584.8	R = 1584.8	S = 1584.8	T = 1584.8	U = 1584.8	V = 1584.8	W = 1584.8	X = 1584.8	Y = 1584.8	Z = 1584.8	AA = 1584.8	AB = 1584.8	AC = 1584.8	AD = 1584.8	AE = 1584.8	AF = 1584.8	AG = 1584.8	AH = 1584.8	AI = 1584.8	AJ = 1584.8	AK = 1584.8	AL = 1584.8	AM = 1584.8	AN = 1584.8	AO = 1584.8	AP = 1584.8	AP01	AP02	AP03	AP04	AP05	AP06	AP07	AP08	AP09	AP10	AP11	AP12	AP13	AP14	AP15	AP16	AP17	AP18	AP19	AP20	AP21	AP22	AP23	AP24	AP25	AP26	AP27	AP28	AP29	AP30	AP31	AP32	AP33	AP34	AP35	AP36	AP37	AP38	AP39	AP40	AP41	AP42	AP43	AP44	AP45	AP46	AP47	AP48	AP49	AP50	AP51	AP52	AP53	AP54	AP55	AP56	AP57	AP58	AP59	AP60	AP61	AP62	AP63	AP64	AP65	AP66	AP67	AP68	AP69	AP70	AP71	AP72	AP73	AP74	AP75	AP76	AP77	AP78	AP79	AP80	AP81	AP82	AP83	AP84	AP85	AP86	AP87	AP88	AP89	AP90	AP91	AP92	AP93	AP94	AP95	AP96	AP97	AP98	AP99	AP100																																																																														

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RUN	GROUP	PROJECT NO	MACH NO	CONFIGURATION	S-ALPHA	S-ROLL	PSI	ALPHA
1.	11.	304244	10.18	1	-5.00	179.98	.00	10.00
VALVE POS 2	PO = 1576.9	Q-IMF = 2.336	P-IMF = .0322	RC = .1582	TO = 1898.			
P	4.324+00	4.5241-01	6.9827-01	1.7525+00	2.4443-02	8.6824-01	1.9387-02	8.5462-01
CP	1.8491+00	1.7985-01	2.8508-01	7.3633-01	-3.3287-03	3.5783-01	-5.930-03	3.5200-01
P/POL	1.0042+00	1.0438-01	1.6110-01	4.0434-01	5.6395-03	2.0032-01	4.4729-03	1.9718-01
VALVE POS 3	PO = 1578.4	Q-IMF = 2.339	P-IMF = .0323	RE = .1584	TO = 1898.			
P	3.8688+00	6.8644-02	1.9398+00	1.6355+00	2.1839-02	8.3328-01	8.3844-01	8.5201-01
CP	1.8491+00	1.5562-02	8.1570-01	6.8571-01	-4.4523-03	3.4253-01	3.4474-01	3.5054-01
P/POL	8.9176-01	1.5822-02	4.4712-01	3.7698-01	5.0338-03	1.9207-01	1.9326-01	1.9639-01
VALVE POS 4	PO = 1579.9	Q-IMF = 2.341	P-IMF = .0323	RE = .1584	TO = 1899.			
P	2.2889+00	2.8501-02	1.8317+00	2.2957+00	2.7044-02	1.8613-01	7.0193-01	8.2972-01
CP	9.6413-01	-1.6135-03	7.6881-01	9.6706-01	-2.2344-03	6.5774-02	2.8611-01	3.4071-01
P/POL	5.2713-01	6.5639-03	4.2185-01	5.2971-01	8.2292-03	4.2866-02	1.6166-01	1.9104-01
VALVE POS 5	PO = 1580.6	Q-IMF = 2.342	P-IMF = .0323	RE = .1585	TO = 1899.			
P	2.1567+00	2.4487-02	2.0554+00	9.9631-01	2.9653-02	4.7484-02	1.8368-01	6.7550-01
CP	9.0722-01	-3.3335-03	8.6398-01	4.1168-01	-1.1275-03	6.4875-03	6.4649-02	2.7468-01
P/POL	4.9645-01	5.6367-03	4.7314-01	2.2934-01	6.8258-03	1.0930-02	4.2281-02	1.5549-01
VALVE POS 6	PO = 1580.8	Q-IMF = 2.342	P-IMF = .0323	RE = .1585	TO = 1899.			
P	2.2919+00	2.2480-02	1.7431+00	1.3844+00	1.0703+00	3.6064-02	3.8974-02	1.8815-01
CP	9.6479-01	-4.1921-03	7.3049-01	5.7947-01	4.4322-01	1.6080-03	2.8505-03	6.6547-02
P/POL	5.2748-01	5.1739-03	4.0119-01	3.1974-01	2.4634-01	8.3003-03	8.9701-03	4.3304-02
VALVE POS 7	PO = 1581.1	Q-IMF = 2.342	P-IMF = .0323	RE = .1585	TO = 1899.			
P	2.3279+00	2.4086-02	3.9726-01	1.3654+00	1.0928+00	4.4078-02	2.2385-02	4.2570-02
CP	9.8002-01	-3.5082-03	1.5581-01	5.6913-01	5.5275-01	5.0270-03	-4.2341-03	4.3832-03
P/POL	5.3568-01	5.5425-03	9.1418-02	3.1421-01	2.5148-01	1.0143-02	5.1512-03	9.7962-03
VALVE POS 8	PO = 1581.3	Q-IMF = 2.343	P-IMF = .0323	RE = .1587	TO = 1898.			
P	2.3159+00	2.2537+00	5.8832-02	1.3804+00	8.5111-01	4.1875-02	2.1386-02	2.7510-02
CP	9.7463-01	9.4808-01	1.1237-02	5.7538-01	3.4946-01	4.0814-03	-4.6632-03	-2.0493-03
P/POL	5.3279-01	5.1848-01	1.3498-02	3.1758-01	1.9581-01	9.6336-03	4.9200-03	6.3289-03
VALVE POS 9	PO = 1582.1	Q-IMF = 2.344	P-IMF = .0323	RE = .1588	TO = 1898.			
P	2.3640+00	2.2763+00	2.5617-02	1.3774+00	9.4187-01	8.2386-01	2.5291+00	2.5100-02
CP	9.9487-01	9.5727-01	-2.8823-03	5.7382-01	3.8801-01	3.3767-01	1.0651+00	-3.0828-03
P/POL	5.4359-01	5.2344-01	5.8904-03	3.1674-01	2.1658-01	1.8945-01	5.8156-01	5.7718-03
VALVE POS 10	PO = 1582.4	Q-IMF = 2.349	P-IMF = .0323	RE = .1590	TO = 1897.			
P	2.3549+00	2.2914+00	2.9628-02	1.3894+00	8.4490-01	8.7976-01	9.4877-01	3.2329-02
CP	9.9040-01	9.6330-01	-1.1601-03	5.7869-01	3.4649-01	3.6136-01	3.9078-01	-4.7038-06
P/POL	5.4129-01	5.2649-01	6.8082-03	3.1937-01	1.9428-01	2.0222-01	2.1808-01	7.4310-03
VALVE POS 11	PO = 1583.1	Q-IMF = 2.348	P-IMF = .0324	RE = .1590	TO = 1897.			
P	2.3519+00	1.9248+00	2.8019-02	1.1073+00	9.9457-01	7.5234-01	7.3591-01	2.8916-02
CP	9.8880-01	8.0673-01	-1.8446-03	4.5025-01	4.1018-01	3.0692-01	2.9991-01	-1.4642-03
P/POL	5.4043-01	4.4229-01	6.4382-03	2.5433-01	3.2853-01	1.7287-01	1.6910-01	6.6443-03
VALVE POS 12	PO = 1581.1	Q-IMF = 2.348	P-IMF = .0324	RE = .1623	TO = 1875.			
P	2.0876+00	2.0304+00	1.7161+00	2.2781-01	9.9797-01	1.8453-01	7.9687-01	2.6908-02
CP	8.7518-01	8.5082-01	7.1698-01	8.3218-02	4.1118-01	6.4787-02	3.2554-01	-2.3325-03
P/POL	4.7827-01	4.6614-01	3.9398-01	5.2300-02	2.2911-01	4.2364-02	1.8294-01	8.1774-03

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RUN	GROUP	PROJECT NO	MACH NO	CONFIGURATION	S-ALPHA	S-ROLL	PSI	ALPHA
1.	12.	304244	10.18	1	.02	179.98	-.01	15.02
VALVE POS 2 PU = 1584.6 Q-IMF = 2.347 P-IMF = .0324 RE = .1587 TO = 1900.								
P	4.2383+00	6.1057-01	5.0053-01	1.7986+00	2.6086-02	7.2048-01	1.7788-02	5.7048-01
CP	1.7918+00	2.4632-01	1.9944-01	7.5072-01	-2.6942-03	2.9314-01	-6.2123-03	2.2924-01
P/P01	9.7325-01	1.4021-01	1.1494-01	4.1209-01	5.9811-03	1.6545-01	4.0847-03	1.3100-01
VALVE POS 3 PU = 1585.1 Q-IMF = 2.352 P-IMF = .0324 RE = .1609 TO = 1886.								
P	4.1972+00	6.2694-02	2.2551+00	1.7986+00	1.9935-02	6.0447-01	5.4144-01	5.6546-01
CP	1.7668+00	2.1375-02	9.4519-01	7.4673-01	-5.3553-03	2.4328-01	2.1646-01	2.2667-01
P/P01	9.5990-01	1.8957-02	5.1697-01	4.1002-01	4.5471-03	1.3857-01	1.2412-01	1.2963-01
VALVE POS 4 PU = 1584.1 Q-IMF = 2.351 P-IMF = .0324 RE = .1617 TO = 1884.								
P	2.7725+00	2.9706-02	2.0509+00	2.1877+00	2.8050-02	1.4025-01	4.4990-01	5.3675-01
CP	1.1657+00	-1.1528-03	6.5873-01	9.1491-01	-1.8572-03	4.5875-02	1.7761-01	2.1456-01
P/P01	6.3585-01	6.8128-03	4.7037-01	5.0173-01	6.4331-03	3.2165-02	1.0318-01	1.2310-01
VALVE POS 5 PU = 1585.8 Q-IMF = 2.349 P-IMF = .0324 RE = .1585 TO = 1902.								
P	2.6613+00	2.6093-02	2.2942+00	9.2729-01	2.9853-02	4.6683-02	1.2791-01	4.2088-01
CP	1.1193+00	-2.6807-03	9.6299-01	3.8102-01	-1.0797-03	6.0860-03	4.0672-02	1.6541-01
P/P01	6.1076-01	5.9882-03	5.2650-01	2.1781-01	6.8511-03	1.0714-02	2.9356-02	9.6591-02
VALVE POS 6 PU = 1587.3 Q-IMF = 2.352 P-IMF = .0324 RE = .1591 TO = 1899.								
P	2.7695+00	2.5290-02	1.9804+00	1.2794+00	9.5329-01	3.7867-02	3.4377-02	1.4679-01
CP	1.1639+00	-3.0360-03	8.2832-01	5.2855-01	3.9158-01	2.3123-03	8.2812-04	4.8628-02
P/P01	6.3479-01	5.7967-03	4.5392-01	2.9233-01	2.1851-01	8.6796-03	7.8796-03	3.3645-02
VALVE POS 7 PU = 1585.8 Q-IMF = 2.355 P-IMF = .0325 RE = .1624 TO = 1877.								
P	2.7725+00	2.6494-02	4.9753-01	1.2244+00	9.7994-01	3.9470-02	2.4394-02	4.1165-02
CP	1.1635+00	-2.5396-03	1.9748-01	5.0613-01	4.0234-01	2.9705-03	-3.4358-03	3.6901-03
P/P01	6.3471-01	6.0654-03	1.1390-01	2.8030-01	2.2434-01	9.0361-03	5.5823-03	9.4240-03
VALVE POS 8 PU = 1585.1 Q-IMF = 2.353 P-IMF = .0324 RE = .1616 TO = 1882.								
P	2.7665+00	2.4549+00	4.7645-02	1.3084+00	6.6017-01	3.2658-02	2.2385-02	2.6104-02
CP	1.1621+00	1.1147+00	1.4964-02	5.4237-01	2.6683-01	9.1655-05	-4.2751-03	-2.6941-03
P/P01	6.3395-01	6.0839-01	1.5501-02	2.9983-01	1.5128-01	7.4837-03	5.1296-03	5.9819-03
VALVE POS 9 PU = 1587.5 Q-IMF = 2.352 P-IMF = .0324 RE = .1592 TO = 1899.								
P	2.7725+00	2.6534+00	2.8619-02	1.2604+00	6.6979-01	5.3575-01	2.0868+00	2.7108-02
CP	1.1650+00	1.1143+00	-1.6223-03	5.2208-01	2.7098-01	2.1399-01	8.7259-01	-2.2643-03
P/P01	6.3538-01	6.0810-01	6.5588-03	2.8885-01	1.5350-01	1.2278-01	4.7778-01	6.2126-03
VALVE POS 10 PU = 1587.8 Q-IMF = 2.354 P-IMF = .0325 RE = .1604 TO = 1891.								
P	2.8055+00	2.6640+00	3.2222-02	1.2664+00	5.5559-01	5.8063-01	7.3671-01	3.4337-02
CP	1.1778+00	1.1177+00	-1.9401-05	5.2409-01	2.2219-01	2.3282-01	2.9912-01	7.9428-04
P/P01	6.4234-01	6.0894-01	7.4232-03	2.8995-01	1.2721-01	1.3295-01	1.6668-01	7.8618-03
VALVE POS 11 PU = 1588.3 Q-IMF = 2.354 P-IMF = .0325 RE = .1597 TO = 1896.								
P	2.8025+00	2.295+00	3.0620-02	1.0233+00	7.1668-01	4.9989-01	5.4264-01	3.0120-02
CP	1.1768+00	9.3338-01	-7.8159-04	4.2477-01	2.9152-01	1.9858-01	2.1674-01	-9.9398-04
P/P01	6.4177-01	5.1056-01	7.0120-03	2.3640-01	1.6458-01	1.1447-01	1.2426-01	6.8975-03
VALVE POS 12 PU = 1587.3 Q-IMF = 2.357 P-IMF = .0325 RE = .1624 TO = 1878.								
P	2.5051+00	2.2974+00	1.8137+00	2.3082-01	7.2569-01	1.2803-01	5.2065-01	2.8916-02
CP	1.0491+00	9.6097-01	7.5374-01	6.4144-02	2.9411-01	4.0530-02	2.0712-01	-1.5215-03
P/P01	5.7302-01	5.2551-01	4.1481-01	5.2794-02	-1.6499-01	2.9285-02	1.1509-01	6.6142-03



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RUN	GROUP	PROJECT NO	MACH NO	CONFIGURATION	S-ALPHA	S-ROLL	PSI	ALPHA
1.	13.	304244	10.18	1	4.96	179.98	-0.00	19.96
VALVE POS 2	PO = 1587.8	Q-INF = 2.355	P-INF = .0325	RE = .1609	TO = 1898.			
P	4.0431+00	7.6873-01	3.6664-01	1.8726+00	3.0855-02	4.8326-01	1.4390-02	3.4719-01
CP	1.7024+00	3.1261-01	1.4189-01	7.8131-01	-6.8902-04	1.9140-01	-7.6798-03	1.3363-01
P/PO1	9.2542-01	1.7596-01	8.3922-02	4.2862-01	7.0624-03	1.1061-01	3.2938-03	7.9468-02
VALVE POS 3	PO = 1586.5	Q-INF = 2.353	P-INF = .0324	RE = .1603	TO = 1891.			
P	4.4005+00	1.0558-01	2.4848+00	1.8216+00	2.2640-02	4.0071-01	3.2119-01	3.4458-01
CP	1.8567+00	3.1087-02	1.0424+00	7.6050-01	-4.1664-03	1.5654-01	1.2274-01	1.3268-01
P/PO1	1.00R3+00	2.4191-02	5.6937-01	4.1739-01	5.1878-03	9.1819-02	7.3596-02	7.8956-02
VALVE POS 4	PO = 1584.3	Q-INF = 2.348	P-INF = .0324	RE = .1596	TO = 1894.			
P	3.2531+00	2.8903-02	2.2656+00	2.0646+00	2.8851-02	1.0258-01	2.5883-01	3.2590-01
CP	1.3714+00	-1.4832-03	9.5094-01	8.6536-01	-1.5051-03	2.9890-02	9.6421-02	1.2498-01
P/PO1	7.4668-01	6.8341-03	5.2003-01	4.7390-01	6.6223-03	2.2354-02	5.9409-02	7.4805-02
VALVE POS 5	PO = 1583.1	Q-INF = 2.347	P-INF = .0324	RE = .1595	TO = 1894.			
P	3.1209+00	2.9706-02	2.4863+00	9.3543-01	3.2858-02	4.1073-02	8.6942-02	2.5984-01
CP	1.3162+00	-1.1315-03	1.0458+00	3.8505-01	2.1208-04	3.7127-03	2.3260-02	9.6939-02
P/PO1	7.1692-01	6.8238-03	5.7115-01	2.1500-01	7.5480-03	9.4351-03	1.9972-02	5.4689-02
VALVE POS 6	PO = 1581.3	Q-INF = 2.344	P-INF = .0323	RE = .1590	TO = 1896.			
P	3.1960+00	2.8100-02	2.1545+00	1.1444+00	7.7358-01	3.6665-02	3.0380-02	8.5944-02
CP	1.3500+00	-1.8001-03	9.0556-01	4.7665-01	3.1630-01	1.8548-03	-8.2726-04	2.2882-02
P/PO1	7.3512-01	6.4634-03	4.9557-01	2.6437-01	1.7793-01	8.4335-03	6.9878-03	1.9768-02
VALVE POS 7	PO = 1579.9	Q-INF = 2.342	P-INF = .0323	RE = .1540	TO = 1895.			
P	3.1990+00	2.8501-02	5.9159-01	1.1674+00	7.8019-01	3.4862-02	2.7182-02	3.1727-02
CP	1.3524+00	-1.6187-03	2.3086-01	4.8476-01	3.1940-01	1.0978-03	-2.1822-03	-2.4112-04
P/PO1	7.3644-01	6.5613-03	1.3619-01	2.6874-01	1.7961-01	8.0256-03	6.2575-03	7.3039-03
VALVE POS 8	PO = 1578.9	Q-INF = 2.340	P-INF = .0323	RE = .1584	TO = 1895.			
P	3.1269+00	2.9893+00	8.8659-02	1.0233+00	5.1351-01	3.7867-02	2.7781-02	3.1727-02
CP	1.3225+00	1.2632+00	2.4097-02	4.2352-01	2.0565-01	2.3914-03	-1.9187-03	-2.3262-04
P/PO1	7.2039-01	6.8638-01	2.0423-02	2.3573-01	1.1829-01	8.7230-03	6.3996-03	7.3085-03
VALVE POS 9	PO = 1578.9	Q-INF = 2.340	P-INF = .0323	RE = .1588	TO = 1896.			
P	3.1504+00	2.9853+00	3.4023-02	1.0863+00	4.7344-01	3.5122-01	1.6195+00	3.2731-02
CP	1.3328+00	1.2921+00	7.5000-04	4.5050-01	1.8952-01	1.2432-01	6.7927-01	1.9792-04
P/PO1	7.2591-01	6.8775-01	7.8381-03	2.5027-01	1.0907-01	8.0915-02	3.7310-01	7.5405-03
VALVE POS 10	PO = 1580.6	Q-INF = 2.343	P-INF = .0323	RE = .1592	TO = 1894.			
P	3.1870+00	2.9959+00	3.5023-02	1.1344+00	3.3560-01	3.3159-01	5.5883-01	3.6948-02
CP	1.3465+00	1.2649+00	1.1581-03	4.7038-01	1.2945-01	1.2774-01	2.2473-01	1.9795-03
P/PO1	7.3326-01	6.8928-01	8.0281-03	2.6099-01	1.7213-02	7.6292-02	1.2857-01	8.5009-03
VALVE POS 11	PO = 1581.3	Q-INF = 2.345	P-INF = .0323	RE = .1596	TO = 1892.			
P	3.1960+00	2.4347+00	3.5424-02	8.7627-01	4.8386-01	2.8290-01	4.0433-01	3.5341-02
CP	1.3494+00	1.0247+00	1.3186-03	3.5997-01	1.9259-01	1.0688-01	1.5867-01	1.2835-03
P/PO1	7.3484-01	5.5979-01	8.1447-03	2.0459-01	1.1225-01	6.5046-02	9.2965-02	8.1258-03
VALVE POS 12	PO = 1582.1	Q-INF = 2.346	P-INF = .0324	RE = .1599	TO = 1891.			
P	2.8305+00	2.4950+00	1.8182+00	2.3805-01	4.8847-01	8.2747-02	3.4777-01	3.3936-02
CP	1.1962+00	1.0498+00	7.6128-01	8.7684-02	1.9443-01	2.1483-02	1.3446-01	6.7563-04
P/PO1	6.5228-01	5.7334-01	4.1781-01	5.4701-02	1.1225-01	1.9015-02	7.9914-02	7.7982-03

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RUN	GROUP	PROJECT NO	MACH NO	CONFIGURATION	S-ALPHA	S-ROLL	PSI	ALPHA
1.	14.	304244	10.18	1	10.05	179.98	-.00	25.05
VALVE POS	2	PO -1583.3	Q-IMF = 2.348	P-IMF = .0324	RC = .1600	TO = 1891.		
P	3.7217+00	8.6588-01	2.7819-01	1.8186+00	3.1456-02	3.2478-01	1.8580-02	2.1606-01
CP	1.5714+00	3.5503-01	1.0470-01	7.6082-01	3.9195-04	1.2455-01	-5.8731-03	7.8241-02
P/P01	8.5453-01	1.9881-01	6.3874-02	4.1758-01	7.2226-03	7.4572-02	4.2679-03	4.9611-02
VALVE POS	3	PU -1583.8	Q-IMF = 2.348	P-IMF = .0324	RE = .1599	TO = 1892.		
P	4.4786+00	1.3368-01	2.5269+00	1.5959+00	2.8651-02	2.5145-01	1.7308-01	2.0582-01
CP	1.8934+00	4.3136-02	1.0623+00	4.6736-01	-1.5892-03	9.3289-02	5.9918-02	7.3860-02
P/P01	1.0281+00	3.0687-02	5.8007-01	3.6710-01	6.5771-03	5.7722-02	3.9733-02	4.7249-02
VALVE POS	4	PO -1584.8	Q-IMF = 2.350	P-IMF = .0324	RE = .1601	TO = 1891.		
P	3.7186+00	3.7734-02	2.4173+00	1.8996+00	3.6465-02	7.5935-02	1.3771-01	1.9337-01
CP	1.5686+00	2.2671-03	1.0149+00	7.9456-01	1.7270-03	1.8523-02	4.4810-02	6.8498-02
P/P01	8.5303-01	8.6539-03	5.5450-01	4.3575-01	8.3648-03	1.7419-02	3.1589-02	4.4358-02
VALVE POS	5	PO -1585.3	Q-IMF = 2.351	P-IMF = .0324	RE = .1607	TO = 1888.		
P	3.5805+00	3.5727-02	2.6680+00	8.9549-01	3.7867-02	4.2075-02	6.0160-02	1.6004-01
CP	1.5089+00	1.4034-03	1.1208+00	3.6725-01	2.3136-03	4.1029+03	1.1794-02	5.4270-02
P/P01	8.2083-01	8.1905-03	6.1165-01	2.0541-01	8.6812-03	9.6458-03	1.3742-02	3.6690-02
VALVE POS	6	PO -1585.8	Q-IMF = 2.352	P-IMF = .0324	RE = .1607	TO = 1888.		
P	3.6135+00	3.4523-02	2.2581+00	1.0023+00	6.3333-01	4.2676-02	3.4577-02	5.6627-02
CP	1.5224+00	8.8670-04	9.4622-01	4.1233-01	2.5546-01	4.3529-03	9.0974-04	1.0284-02
P/P01	8.2815-01	7.9119-03	5.1752-01	2.2971-01	1.4515-01	9.7805-03	7.9244-03	1.2978-02
VALVE POS	7	PO -1586.5	Q-IMF = 2.353	P-IMF = .0325	RE = .1608	TO = 1888.		
P	3.5425+00	3.4523-02	6.6765-01	1.0353+00	6.3032-01	4.0873-02	3.3178-02	3.5341-02
CP	1.5128+00	8.7982-04	2.6992-01	4.2616-01	2.9406-01	3.5781-03	3.0834-04	1.2277-03
P/P01	8.2294-01	7.9082-03	1.5294-01	2.3716-01	1.4439-01	9.3628-03	7.6001-03	8.0957-03
VALVE POS	8	PO -1586.8	Q-IMF = 2.354	P-IMF = .0325	RE = .1610	TO = 1897.		
P	3.5334+00	3.3388+00	1.0027-01	9.6030-01	3.9811-01	4.5280-02	3.3977-02	3.1952-02
CP	1.4881+00	1.4050+00	2.8808-02	3.9417-01	1.5534-01	5.4461-03	6.4428-04	2.3327-03
P/P01	8.0986-01	7.6485-01	2.2962-02	2.1992-01	9.1172-02	1.0370-02	7.7813-03	8.6915-03
VALVE POS	9	PO -1587.3	Q-IMF = 2.355	P-IMF = .0325	RE = .1612	TO = 1886.		
P	3.5534+00	3.3277+00	3.7423-02	9.6630-01	3.3580-01	2.3983-01	1.2218+00	3.8956-02
CP	1.4952+00	1.3996+00	2.0561-03	4.4227-01	7.2098-02	6.5871-02	1.6199-01	3.4768-03
P/P01	8.1345-01	7.6178-01	8.5423-03	2.2120-01	7.6870-02	5.4901-02	2.7968-01	8.9177-03
VALVE POS	10	PO -1588.6	Q-IMF = 2.349	P-IMF = .0324	RE = .1606	TO = 1887.		
P	3.5685+00	3.3202+00	3.7225-02	1.0713+00	2.0176-01	1.8713-01	4.1292-01	4.0562-02
CP	1.5053+00	1.1151+00	3.6548-03	3.9654-01	1.2880-01	8.8051-02	2.0502-01	2.7523-03
P/P01	8.1830-01	7.6132-01	8.5423-03	2.4582-01	5.6300-02	4.2949-02	9.4760-02	9.3084-03
VALVE POS	11	PO -1588.5	Q-IMF = 2.352	P-IMF = .0324	RE = .1607	TO = 1888.		
P	3.5835+00	2.6549+00	4.1027-02	7.7123-01	3.2698-01	1.4686-01	3.0140-01	4.0562-02
CP	1.5079+00	1.1151+00	3.6548-03	3.1414-01	1.2524-01	4.8656-02	1.1437-01	3.4570-03
P/P01	8.2139-01	6.0835-01	9.4041-03	1.7678-01	7.4949-02	3.3663-02	6.9086-02	9.2975-03
VALVE POS	12	PO -1586.8	Q-IMF = 2.354	P-IMF = .0325	RE = .1608	TO = 1888.		
P	3.0578+00	2.6429+00	1.7831+00	2.6755-01	3.2698-01	6.2311-02	2.5023-01	4.0964-02
CP	1.2894+00	1.1091+00	7.4409-01	9.9884-02	1.2513-01	1.2684-02	9.2526-02	3.6142-03
P/P01	7.0635-01	6.0531-01	4.0852-01	6.1279-02	7.4890-02	1.4271-02	5.7312-02	9.3822-03

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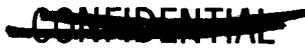
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ITEM	GROUP	PROJECT NO	MACH NO	CONFIGURATION	S-ALPHA	S-ROLL	PSI	ALPHA
1.	15.	304244	10.18	1	14.91	179.98	-0.00	29.91
VALVE POS 2 PU -1587.0 Q-IMF = 2.355 P-IMF = .0325 RE = .1613 TO = 1885.								
P	3.322+00	9.0401-01	2.2115-01	1.7976+00	3.2858-02	2.2500-01	2.5783-02	1.5884-01
CP	1.3970+00	3.7011-01	0.0124-02	7.4957-01	1.6379-04	0.1760-02	-2.8410-03	5.3662-02
P/P01	7.6055-01	2.0696-01	5.0628-02	4.1152-01	7.5223-03	5.1510-02	5.9025-03	3.6363-02
VALVE POS 3 PU -1585.8 Q-IMF = 2.353 P-IMF = .0324 RE = .1610 TO = 1886.								
P	4.4786+00	1.4411-01	2.8091+00	1.7766+00	3.0454-02	1.8433-01	3.2322-01	1.5723-01
CP	1.8898+00	4.7464-02	1.1802+00	7.4133-01	8.4575-04	6.4558-02	3.8626-02	5.3039-02
P/P01	1.0262+00	3.3021-02	6.4367-01	4.0707-01	6.9781-03	4.2236-02	2.8256-02	3.6027-02
VALVE POS 4 PO -1583.8 Q-IMF = 2.349 P-IMF = .0324 RE = .1605 TO = 1888.								
P	4.0821+00	4.0946-02	2.5299+00	1.6775+00	4.0472-02	6.0908-02	9.6736-02	1.4478-01
CP	1.7239+00	3.6391-03	1.0631+00	7.0024-01	3.4375-03	1.2137-02	2.7387-02	4.7838-02
P/P01	9.3672-01	9.3958-03	5.8053-01	3.8494-01	5.2871-03	1.3977-02	2.2198-02	3.2222-02
VALVE POS 5 PO -1582.3 Q-IMF = 2.346 P-IMF = .0324 RE = .1600 TO = 1890.								
P	3.9650+00	3.7734-02	2.7175+00	0.1871-01	4.0472-02	4.3878-02	4.9567-02	1.2490-01
CP	1.6759+00	2.2906-03	1.1443+00	3.5777-01	3.4574-03	4.9089-03	7.3334-03	3.9438-02
P/P01	9.1088-01	8.6688-03	6.2431-01	1.8809-01	9.2977-03	1.0080-02	1.1387-02	2.8694-02
VALVE POS 6 PO -1584.1 Q-IMF = 2.350 P-IMF = .0324 RE = .1605 TO = 1889.								
P	3.9220+00	3.0136-02	2.1275+00	0.6127-01	5.3175-01	4.5280-02	3.9973-02	4.7992-02
CP	1.6852+00	2.4404-03	0.9169-01	3.5777-01	2.1252-01	5.4813-03	3.2226-03	6.6354-03
P/P01	9.1590-01	0.7496-03	4.0812-01	1.9760-01	1.2200-01	1.0389-02	9.1712-03	1.1011-02
VALVE POS 7 PO -1585.1 Q-IMF = 2.351 P-IMF = .0324 RE = .1606 TO = 1888.								
P	3.9224+00	4.0143-02	6.6444-01	0.2226-01	5.1892-01	4.4880-02	3.9574-02	4.2972-02
CP	1.6548+00	3.2840-03	2.6882-01	3.3595-01	2.0693-01	5.2988-03	3.0419-03	4.4873-03
P/P01	8.9948-01	9.2043-03	1.5235-01	1.8853-01	1.1898-01	1.0290-02	9.0738-03	9.8530-03
VALVE POS 8 PO -1586.0 Q-IMF = 2.353 P-IMF = .0324 RE = .1609 TO = 1887.								
P	3.8899+00	3.6324+00	1.0447-01	0.6127-01	3.0652-01	5.5080-02	3.9973-02	4.3173-02
CP	1.6395+00	1.5301+00	3.0812-02	3.5277-01	1.1667-01	5.3700-03	3.1995-03	4.5593-03
P/P01	8.9125-01	8.3227-01	2.0936-02	1.9734-01	7.0328-02	1.0329-02	9.1588-03	9.8918-03
VALVE POS 9 PO -1583.1 Q-IMF = 2.348 P-IMF = .0324 RE = .1601 TO = 1890.								
P	3.8778+00	3.5962+00	4.1628-02	0.7027-01	2.4403-01	1.7150-01	0.9156-01	4.2972-02
CP	1.8380+00	1.5181+00	3.9316-03	3.5892-01	9.0160-02	5.9285-02	3.6598-01	4.5141-03
P/P01	8.9045-01	8.2578-01	9.5587-03	1.9984-01	5.6036-02	3.9382-02	2.0472-01	9.8674-03
VALVE POS 10 PO -1581.8 Q-IMF = 2.346 P-IMF = .0323 RE = .1600 TO = 1890.								
P	3.8628+00	3.4378+00	4.5630-02	0.1626-01	1.4726-01	1.1921-01	2.9920-01	4.9799-02
CP	1.6329+00	1.4518+00	5.6619-03	3.3418-01	4.8988-02	3.7030-02	1.1376-01	7.4390-03
P/P01	8.8770-01	7.9004-01	4.0586-02	1.8738-01	3.3842-02	2.7396-02	6.8758-02	1.1444-02
VALVE POS 11 PO -1581.8 Q-IMF = 2.346 P-IMF = .0323 RE = .1600 TO = 1890.								
P	3.7607+00	2.7832+00	4.5831-02	0.6387-01	2.3382-01	8.6354-02	2.2665-01	4.6787-02
CP	1.5894+00	1.1727+00	5.7472-03	3.5448-01	8.5086-02	2.3022-02	0.2831-02	6.1550-03
P/P01	8.6423-01	6.3959-01	1.0532-02	1.9852-01	5.3732-02	1.9845-02	5.2085-02	1.0752-02
VALVE POS 12 PO -1583.6 Q-IMF = 2.349 P-IMF = .0324 RE = .1605 TO = 1888.								
P	2.9857+00	2.7892+00	1.7762+00	2.6193-01	2.3221-01	5.0890-02	1.9587-01	4.4980-02
CP	1.2574+00	1.1737+00	7.6240-01	9.7725-02	8.5072-02	7.8758-03	6.9599-02	5.3594-03
P/P01	8.8524-01	8.5014-01	4.0764-01	6.0115-02	5.3294-02	1.1860-02	4.4953-02	1.0323-02

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1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.
GROUP	PROJECT NO	MACH NO	CONFIGURATION	S-ALPHA	S-ROLL	PSI	ALPHA				
16.	304244	10.06	4	-14.98	174.98	.00	.02				
VALVE POS	2	PO = 281.6	Q-IMF = .435	P-IMF = .0061	RE = .0340	TO = 1721.					
P	2.7224-02	4.6566-02	3.0020-02	2.6695-02	8.8157-03	8.1144-02	7.7948-03	2.4297-02		.0000+00	
CP	4.8504-02	7.2996-02	5.4935-02	4.7286-02	6.1574-03	1.7254-01	3.8096-03	4.1771-02		.0000+00	
P/POI	3.3807-02	5.7825-02	3.7279-02	3.3150-02	1.0947-02	1.0077-01	9.6796-03	3.0172-02		.0000+00	
VALVE POS	3	PO = 282.4	Q-IMF = .436	P-IMF = .0062	RE = .0343	TO = 1716.					
P	3.0027-02	1.7663-02	2.9219-02	5.3992-02	6.0107-03	2.1017-01	1.1357-01	2.8115-02		.0000+00	
CP	5.4732-02	2.6381-02	5.2881-02	1.0769-01	3.3782-04	4.6782-01	2.4620-01	5.1724-02		.0000+00	
P/POI	3.7170-02	2.1865-02	3.6171-02	6.6837-02	7.4407-03	2.6018-01	1.4053-01	3.5546-02		.0000+00	
VALVE POS	4	PO = 287.6	Q-IMF = .437	P-IMF = .0062	RE = .0346	TO = 1709.					
P	3.3630-02	8.0285-03	3.1621-02	2.5491-02	6.8121-03	7.2128-02	2.9460-01	1.3273-01		.0000+00	
CP	6.2907-02	4.2685-03	5.8306-02	4.4264-02	1.4823-03	1.5109-01	6.6065-01	2.8989-01		.0000+00	
P/POI	4.1585-02	9.9278-03	3.9101-02	3.1521-02	8.4236-03	8.9191-02	3.6429-01	1.6413-01		.0000+00	
VALVE POS	5	PO = 282.5	Q-IMF = .437	P-IMF = .0062	RE = .0346	TO = 1707.					
P	2.9626-02	6.4228-03	4.8032-02	2.2881-02	1.4025-02	9.4167-03	8.0746-02	3.1506-01		.0000+00	
CP	5.3737-02	5.9051-04	9.5894-02	3.8283-02	1.8003-02	7.4478-03	1.7082-01	7.0750-01		.0000+00	
P/POI	3.6635-02	7.9423-03	5.9395-02	2.8794-02	1.7343-02	1.1644-02	9.9849-02	3.8959-01		.0000+00	
VALVE POS	6	PO = 282.4	Q-IMF = .436	P-IMF = .0062	RE = .0347	TO = 1706.					
P	2.9827-02	6.0214-03	7.6451-02	2.7490-02	2.5445-02	6.4114-03	2.8581-02	9.8594-02		.0000+00	
CP	5.4212-02	3.2551-04	1.6103-01	4.8877-02	4.4175-02	5.6796-04	5.1359-02	2.1176-01		.0000+00	
P/POI	3.6892-02	7.4478-03	9.4561-02	3.4012-02	3.1473-02	7.9302-03	3.5351-02	1.2195-01		.0000+00	
VALVE POS	7	PO = 282.4	Q-IMF = .436	P-IMF = .0062	RE = .0346	TO = 1707.					
P	3.0827-02	6.4228-03	4.8232-02	2.7890-02	2.7850-02	5.0089-03	1.2392-02	2.6104-02		.0000+00	
CP	5.6512-02	5.9547-04	9.6390-02	4.9849-02	4.9889-02	-2.6442-03	1.4272-02	4.5690-02		.0000+00	
P/POI	3.8133-02	7.9450-03	5.9663-02	3.4511-02	3.4449-02	6.1959-03	1.5328-02	3.2291-02		.0000+00	
VALVE POS	8	PO = 282.4	Q-IMF = .436	P-IMF = .0062	RE = .0345	TO = 1709.					
P	2.9426-02	2.4086-02	2.0614-02	2.8100-02	2.7850-02	4.4078-03	7.9947-03	1.4056-02		.0000+00	
CP	5.3324-02	4.1084-02	3.3126-02	5.0285-02	4.9711-02	-4.0178-03	4.2032-03	1.8096-02		.0000+00	
P/POI	3.6412-02	2.9804-02	2.5507-02	3.4771-02	3.4461-02	5.4543-03	9.8926-03	1.7393-02		.0000+00	
VALVE POS	9	PO = 282.4	Q-IMF = .436	P-IMF = .0062	RE = .0345	TO = 1710.					
P	3.0827-02	2.9304-02	1.2008-02	3.4723-02	3.0053-02	1.7231-02	2.4983-02	8.2329-03		.0000+00	
CP	3.6542-02	5.3051-02	1.3404-02	4.2473-02	5.4768-02	2.5376-02	4.3147-02	4.7510-03		.0000+00	
P/POI	3.8149-02	3.6264-02	1.4860-02	4.2970-02	3.7191-02	2.1323-02	3.0917-02	1.0186-02		.0000+00	
VALVE POS	10	PO = 282.3	Q-IMF = .436	P-IMF = .0062	RE = .0344	TO = 1712.					
P	3.3230-02	4.5361-02	8.4056-03	1.0738-01	7.7763-02	1.5282-02	5.1416-02	3.3762-03		.0000+00	
CP	6.2075-02	8.9893-02	5.1535-03	1.0738-01	7.7763-02	1.5282-02	5.1416-02	3.3762-03		.0000+00	
P/POI	5.1135-02	5.6154-02	1.0505-02	6.5595-02	5.2605-02	1.5874-02	3.5381-02	9.4460-03		.0000+00	
VALVE POS	11	PO = 282.2	Q-IMF = .436	P-IMF = .0062	RE = .0344	TO = 1712.					
P	4.7843-02	3.1713-02	7.2048-03	1.0397-01	3.0254-02	1.9094-01	2.9580-02	6.8273-03		.0000+00	
CP	9.5620-02	5.8622-02	2.4056-03	2.2436-01	5.5275-02	4.2386-01	5.3730-02	1.5397-03		.0000+00	
P/POI	5.9245-02	3.9271-02	8.9220-03	1.2875-01	3.7465-02	2.3645-01	3.6630-02	8.4545-03		.0000+00	
VALVE POS	12	PO = 282.1	Q-IMF = .436	P-IMF = .0062	RE = .0344	TO = 1713.					
P	8.4675-02	3.0508-02	2.4216-02	4.6164-02	3.5463-02	4.7484-02	2.9580-02	6.2249-03		.0000+00	
CP	1.8019-01	5.5890-02	4.1450-02	9.1816-02	6.7259-02	9.4846-02	5.3760-02	1.6397-04		.0000+00	
P/POI	1.0490-01	3.7798-02	3.0001-02	5.7191-02	4.3934-02	5.8827-02	3.6846-02	7.7118-03		.0000+00	

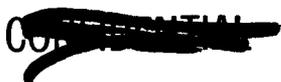




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RUN	GROUP	PROJECT NO	MACH NO	CONFIGURATION	S-ALPHA	S-ROLL	PSI	ALPHA
1.	17.	304244	10.06	4	-12.01	177.97	.01	2.99
VALVE POS 2 PO = 281.9 Q-IMF = .435 P-IMF = .0061 RE = .0343 TO = 1714.								
P		2.0618-02	5.7368-02	2.4216-02	4.4558-02	7.6135-03	2.4444-02	6.7955-03
CP		3.3230-02	9.4663-02	4.1493-02	8.8210-02	3.3639-03	4.2747-02	1.4852-03
P/P01		2.5563-02	5.8728-02	3.0024-02	5.5744-02	9.4394-03	3.0554-02	8.4251-03
VALVE POS 3 PO = 282.1 Q-IMF = .436 P-IMF = .0062 RE = .0343 TO = 1714.								
P		2.5623-02	1.8466-02	1.6191-01	6.2984-01	5.0089-03	2.0216-02	2.8981-02
CP		5.5683-02	2.8258-02	3.5746-01	1.4314-00	-2.6255-03	3.2321-02	5.2390-02
P/P01		3.1746-02	2.2878-02	2.0060-01	7.8035-01	6.2054-03	2.5072-02	3.5906-02
VALVE POS 4 PO = 282.6 Q-IMF = .436 P-IMF = .0062 RE = .0344 TO = 1714.								
P		2.5873-02	8.8314-03	5.7258-01	5.3591-01	5.2093-03	1.4876-02	2.8981-02
CP		4.5042-02	6.1129-03	1.2977-00	1.0866-01	-2.1857-03	1.4848-02	5.2277-02
P/P01		3.1433-02	1.0923-02	7.0820-01	6.6285-02	6.4431-03	1.8338-02	3.5845-02
VALVE POS 5 PO = 283.1 Q-IMF = .437 P-IMF = .0062 RE = .0344 TO = 1715.								
P		2.7623-02	6.4228-03	6.3763-01	2.8702-02	1.2222-02	9.6171-03	2.0187-02
CP		4.9079-02	5.7383-04	1.4468-00	5.1544-02	1.3840-02	7.8816-03	3.2062-02
P/P01		3.4118-02	7.9326-03	7.8751-01	3.5449-02	1.5095-02	1.1878-02	2.4932-02
VALVE POS 6 PO = 283.2 Q-IMF = .437 P-IMF = .0062 RE = .0344 TO = 1715.								
P		2.7424-02	5.2186-03	5.0514-01	2.6695-02	2.3642-02	8.6153-03	1.1193-02
CP		4.8599-02	-2.1853-03	1.1414-00	4.6931-02	3.9949-02	5.5831-03	1.1477-02
P/P01		3.3859-02	6.4431-03	6.2367-01	3.2459-02	2.9190-02	1.0637-02	1.3819-02
VALVE POS 7 PO = 283.2 Q-IMF = .438 P-IMF = .0062 RE = .0347 TO = 1706.								
P		2.6423-02	5.6200-03	9.9068-02	2.4080-02	2.3842-02	7.8139-03	5.9960-03
CP		4.6252-02	-1.2797-03	2.1222-01	4.0910-02	4.0354-02	3.7329-03	-4.2055-04
P/P01		3.2594-02	6.9324-03	1.2220-01	2.9710-02	2.9410-02	9.6386-03	7.3962-03
VALVE POS 8 PO = 283.3 Q-IMF = .438 P-IMF = .0062 RE = .0349 TO = 1701.								
P		7.8810-02	2.3233-02	2.6518-02	3.3720-02	2.5468-02	7.8139-03	6.1959-03
CP		1.6551-01	3.9043-02	4.6201-02	6.2875-02	4.4439-02	3.7220-03	2.7465-05
P/P01		9.6485-02	2.8703-02	3.2568-02	4.1570-02	3.1614-02	9.6330-03	7.6383-03
VALVE POS 9 PO = 283.2 Q-IMF = .438 P-IMF = .0062 RE = .0349 TO = 1701.								
P		5.5109-01	4.2792-01	1.2608-02	7.9683-02	2.8050-02	2.3442-02	2.3984-02
CP		1.2444-00	8.6315-01	1.4675-02	1.6788-01	4.9939-02	3.9412-02	4.0654-02
P/P01		6.7950-01	5.2783-01	1.5546-02	9.8251-02	3.4586-02	2.8904-02	2.9573-02
VALVE POS 10 PO = 283.1 Q-IMF = .438 P-IMF = .0062 RE = .0349 TO = 1702.								
P		6.6379-01	6.4188-01	7.8052-03	3.4422-01	3.2458-02	2.4243-02	2.7182-02
CP		1.5070-00	1.4524-00	3.7128-03	7.7234-01	6.0037-02	4.1269-02	4.7984-02
P/P01		8.2128-01	7.9118-01	9.6280-03	4.2461-01	4.0838-02	2.9903-02	3.3530-02
VALVE POS 11 PO = 283.1 Q-IMF = .438 P-IMF = .0062 RE = .0349 TO = 1702.								
P		6.4117-01	5.7404-02	6.4043-03	5.0078-01	2.9252-02	2.0036-02	2.7382-02
CP		1.4510-00	1.1706-01	2.1493-04	1.1302-00	5.2725-02	3.1664-02	4.8451-02
P/P01		7.9104-01	7.0822-02	7.9012-03	6.1784-01	3.6085-02	2.4719-02	3.3782-02
VALVE POS 12 PO = 283.1 Q-IMF = .438 P-IMF = .0062 RE = .0349 TO = 1700.								
P		4.4279-01	3.1311-02	2.4016-02	7.5067-02	2.9052-02	1.3825-02	2.9580-02
CP		9.9754-01	5.7418-02	4.0750-02	1.5739-01	5.2255-02	1.7465-02	5.3463-02
P/P01		5.4820-01	3.8624-02	2.9625-02	9.2598-02	3.5838-02	1.7092-02	3.6488-02

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RUN	GROUP	PROJECT NO	MACH NO	CONFIGURATION	S-ALPHA	S-ROLL	PSI	ALPHA
1.	18.	304244	10.06	4	-10.05	179.97	.01	4.95
VALVE POS 2	PO = 282.8	Q-INF = .437	P-INF = .0062	RE = .0349	TO = 1700.			
P	2.0418-02	7.2257-02	2.4016-02	5.5417-01	7.8139-03	1.7631-02	5.7961-03	2.3293-02
CP	3.2573-02	1.5112-01	4.0801-02	1.2532+00	3.7489-03	2.4200-02	8.6543-04	3.9148-02
P/P01	2.5210-02	8.9216-02	2.9653-02	6.8423-01	9.6478-03	2.1769-02	7.1565-03	2.8760-02
VALVE POS 3	PO = 282.6	Q-INF = .437	P-INF = .0062	RE = .0349	TO = 1701.			
P	2.3020-02	2.0874-02	5.5677-01	5.8649-01	4.6082-03	1.9435-02	2.5583-02	2.8112-02
CP	3.8560-02	3.3649-02	1.2600+00	1.3280+00	-3.5750-03	3.1271-02	4.4424-02	5.0213-02
P/P01	2.8443-02	2.5791-02	6.8791-01	7.2462-01	5.6936-03	2.4507-02	3.1609-02	3.4734-02
VALVE POS 4	PO = 282.5	Q-INF = .437	P-INF = .0062	RE = .0347	TO = 1704.			
P	2.4422-02	8.0285-03	5.7959-01	3.3519-02	5.8103-03	1.4426-02	2.5783-02	3.7149-02
CP	4.1801-02	4.2634-03	1.3130+00	6.2632-02	-6.1594-04	1.8912-02	4.4917-02	7.0943-02
P/P01	3.0192-02	9.9234-03	7.1652-01	4.1438-02	7.1831-03	1.7834-02	3.1874-02	4.5925-02
VALVE POS 5	PO = 282.5	Q-INF = .437	P-INF = .0062	RE = .0347	TO = 1705.			
P	2.4622-02	5.6200-03	6.0060-01	2.7096-02	1.0819-02	8.2146-03	1.7388-02	3.6145-02
CP	4.2274-02	-1.2485-03	1.3615+00	4.7941-02	1.0660-02	4.6943-03	2.5706-02	6.8666-02
P/P01	3.0447-02	6.9495-03	7.4269-01	3.3507-02	1.3379-02	1.0158-02	2.1502-02	4.4695-02
VALVE POS 6	PO = 282.4	Q-INF = .436	P-INF = .0062	RE = .0347	TO = 1706.			
P	2.6223-02	4.4157-03	3.1341-01	2.2480-02	3.1037-02	7.4132-03	9.9933-03	2.4498-02
CP	4.5937-02	-4.0042-03	7.0390-01	3.7381-02	3.4076-02	2.8630-03	8.7747-03	4.2005-02
P/P01	3.2435-02	5.4617-03	3.8765-01	2.7805-02	2.6021-02	9.1692-03	1.2361-02	3.0301-02
VALVE POS 7	PO = 282.0	Q-INF = .436	P-INF = .0062	RE = .0346	TO = 1705.			
P	5.5049-02	4.8171-03	7.1247-02	4.4358-02	2.9052-02	6.6118-03	5.9960-03	1.1647-02
CP	1.1218-01	-3.0689-03	1.4934-01	8.7650-02	5.2533-02	1.0486-03	-3.6415-04	1.2600-02
P/P01	6.8188-02	5.9669-03	8.8253-02	5.4945-02	3.5986-02	8.1899-03	7.4271-03	1.4426-02
VALVE POS 8	PO = 281.6	Q-INF = .435	P-INF = .0061	RE = .0344	TO = 1709.			
P	3.7513-01	4.4157-02	1.8412-02	1.4552-01	2.7248-02	6.8121-03	6.5456-03	7.8313-03
CP	8.4789-01	8.7347-02	2.8188-02	3.2026-01	4.8493-02	1.5323-03	1.0348-03	3.8743-03
P/P01	4.6538-01	5.4780-02	2.2842-02	1.8052-01	3.3804-02	8.4509-03	8.1823-03	9.7153-03
VALVE POS 9	PO = 281.5	Q-INF = .435	P-INF = .0061	RE = .0343	TO = 1712.			
P	4.5440-01	4.5843-01	1.0607-02	5.0821-01	2.7649-02	1.7631-02	2.0586-02	5.2209-03
CP	1.0309+00	1.0401+00	1.0272-02	1.1546+00	4.9463-02	2.6425-02	3.3221-02	-2.1149-03
P/P01	5.6415-01	5.6915-01	1.3169-02	6.3095-01	3.4327-02	2.1890-02	2.5558-02	6.4818-03
VALVE POS 10	PO = 281.1	Q-INF = .434	P-INF = .0061	RE = .0342	TO = 1714.			
P	5.6610-01	5.8729-01	6.4043-03	5.5256-01	3.3059-02	1.8433-02	1.8388-02	5.8233-03
CP	1.2895+00	1.3383+00	6.2655-04	1.2584+00	6.2008-02	2.8326-07	2.8223-02	-7.1136-04
P/P01	7.0379-01	7.3012-01	7.9419-03	8.8695-01	4.1099-02	2.2916-02	2.2869-02	7.2396-03
VALVE POS 11	PO = 280.9	Q-INF = .434	P-INF = .0061	RE = .0341	TO = 1715.			
P	6.0594-01	5.1383-02	5.8039-03	4.3234-01	2.9052-02	1.7231-02	2.3784-02	5.8233-03
CP	1.3829+00	1.0432-01	-7.4362-04	9.8243-01	5.2843-02	2.5595-02	4.0701-02	-6.9885-04
P/P01	7.5402-01	6.3940-02	7.2222-03	5.3799-01	3.6151-02	2.1441-02	2.9596-02	7.2464-03
VALVE POS 12	PO = 280.4	Q-INF = .433	P-INF = .0061	RE = .0340	TO = 1717.			
P	3.6452-01	3.0107-02	2.3215-02	6.5633-02	2.7248-02	1.2422-02	2.6183-02	7.0281-03
CP	8.2771-01	5.5407-02	3.9492-02	1.3743-01	4.8803-02	1.4565-02	4.6344-02	2.1087-03
P/P01	4.5446-01	3.7539-02	2.8943-02	8.1827-02	3.3971-02	1.5487-02	3.2642-02	8.7621-03



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NUM	GROUP	PROJECT NO	MACH NO	CONFIGURATION	S-ALPHA	S-ROLL	PSI	ALPHA
1.	19.	304244	10.06	4	-5.00	174.97	.00	10.00
VALVE POS 2	PU = 280.3	Q-IMF = .433	P-IMF = .0061	RE = .0340	TO = 1718.			
P	2.8725-02	1.5054-01	2.7218-02	2.1798-01	8.6153-03	1.3564-01	1.7388-02	2.0281-02
CP	5.1084-02	3.3367-01	4.8763-02	4.8944-01	5.7827-03	2.9276-01	2.6078-02	3.2735-02
P/POI	3.5204-02	1.8776-01	3.3948-02	2.7187-01	1.0745-02	1.6918-01	6.9400-03	2.5296-02
VALVE POS 3	PO = 280.5	Q-IMF = .433	P-IMF = .0061	RE = .0340	TO = 1719.			
P	3.9635-02	3.2917-02	3.2862-01	3.9340-01	4.6082-03	1.2302-01	1.7388-02	2.2289-02
CP	7.7395-02	6.1884-02	7.4466-01	8.9424-01	-3.816-03	2.6791-01	2.6078-02	3.7344-02
P/POI	4.9405-02	4.1031-02	4.0462-01	4.9037-01	5.7441-03	1.5334-01	2.1675-02	2.7783-02
VALVE POS 4	PO = 281.5	Q-IMF = .435	P-IMF = .0061	RE = .0341	TO = 1718.			
P	4.3439-02	1.0036-02	3.5724-01	3.4723-02	5.8100-03	2.6447-02	1.6789-02	2.3293-02
CP	8.5827-02	8.9699-03	8.0785-01	6.5774-02	-1.2132-03	4.6731-02	2.4508-02	3.9474-02
P/POI	5.2327-02	1.2466-02	4.4374-01	4.3131-02	6.9683-03	3.2321-02	2.0954-02	2.8933-02
VALVE POS 5	PO = 281.9	Q-IMF = .435	P-IMF = .0061	RE = .0341	TO = 1719.			
P	4.2438-02	6.0214-03	5.6478-01	3.0308-02	9.2184-03	1.3825-02	1.1193-02	1.8876-02
CP	8.3400-02	-2.8397-04	1.2837+00	5.5525-02	7.0580-03	1.7647-02	1.1599-02	2.9254-02
P/POI	5.2646-02	7.4698-03	7.0063-01	3.7598-02	1.1433-02	1.7150-02	1.3885-02	2.3416-02
VALVE POS 6	PO = 282.3	Q-IMF = .436	P-IMF = .0062	RE = .0342	TO = 1718.			
P	4.6041-02	4.8171-03	5.8179-01	4.4157-02	2.3041-02	1.2222-02	7.7948-03	1.2249-02
CP	9.1526-02	-3.0672-03	1.3209+00	8.7203-02	3.8750-02	1.3924-02	3.7655-03	1.3986-02
P/POI	5.7033-02	5.9672-03	7.2049-01	5.4699-02	2.8542-02	1.5140-02	9.6558-03	1.5173-02
VALVE POS 7	PO = 282.7	Q-IMF = .437	P-IMF = .0062	RE = .0345	TO = 1711.			
P	1.3532-01	5.2186-03	1.9293-01	1.2223-01	1.5387-01	1.0619-02	4.7968-03	7.0281-03
CP	2.9572-01	-2.1716-03	4.2763-01	2.6576-01	3.3820-01	1.0193-02	-3.1372-03	1.9718-03
P/POI	1.6727-01	6.4508-03	2.3849-01	1.5110-01	1.9021-01	1.3126-02	5.9295-03	8.6877-03
VALVE POS 8	PU = 282.9	Q-IMF = .437	P-IMF = .0062	RE = .0347	TO = 1706.			
P	3.2709-01	5.8207-02	3.8626-02	1.8506-01	4.4483-02	1.0419-02	5.3464-03	6.2249-03
CP	7.3397-01	1.1901-01	7.4221-02	4.0913-01	9.2191-02	1.0625-02	-1.7781-03	1.1675-04
P/POI	4.0389-01	7.1873-02	4.7694-02	2.2451-01	5.7396-02	1.3359-02	6.6634-03	7.6864-03
VALVE POS 9	PO = 283.3	Q-IMF = .438	P-IMF = .0062	RE = .0347	TO = 1708.			
P	3.9435-01	3.6610-01	1.3409-02	2.1657-01	3.5463-02	1.6630-02	2.1586-02	4.8193-03
CP	8.8674-01	8.2221-01	1.8511-02	4.8061-01	6.8892-02	2.3869-02	3.3190-02	-3.1108-03
P/POI	4.8635-01	4.5152-01	1.6537-02	2.6710-01	4.3737-02	2.0509-02	2.6622-02	5.9436-03
VALVE POS 10	PO = 283.5	Q-IMF = .438	P-IMF = .0062	RE = .0347	TO = 1708.			
P	4.7282-01	6.8403-01	7.0047-03	2.8742-01	2.8050-02	1.9435-02	2.7781-02	5.8233-03
CP	1.0651+00	1.5472+00	1.8681-03	6.4191-01	4.9903-02	3.0239-02	4.9291-02	-8.2836-04
P/POI	5.8264-01	8.4290-01	8.6316-03	3.2518-01	3.2565-02	2.3948-02	3.4234-02	7.1758-03
VALVE POS 11	PO = 283.7	Q-IMF = .438	P-IMF = .0062	RE = .0347	TO = 1708.			
P	7.1684-01	6.0616-02	6.0040-02	2.7277-01	7.2329-02	1.5027-02	2.8981-02	5.4217-03
CP	1.6209+00	1.2414-01	-4.2505-04	6.0805-01	1.5086-01	2.0155-02	5.1983-02	-1.7533-03
P/POI	8.8273-01	7.4643-02	7.3935-03	3.3589-01	8.8067-02	1.8504-02	3.5687-02	6.6764-03
VALVE POS 12	PO = 283.8	Q-IMF = .439	P-IMF = .0062	RE = .0348	TO = 1706.			
P	5.5209-01	5.9960-02	5.9233-02	6.4630-02	1.2262-01	1.2222-02	1.8588-02	5.2209-03
CP	1.2445+00	8.8377-02	9.8119-02	1.3322-01	2.6542-01	1.3743-02	2.8255-02	-2.2174-03
P/POI	9.7921-01	5.5337-02	6.0594-02	7.9546-02	1.5092-01	1.5043-02	2.2878-02	6.5259-03

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RUN	GROUP	PROJECT NO	MACH NO	CONFIGURATION	S-ALPHA	S-ROLL	PSI	ALPHA
1.	20.	304244	10.06	4	.02	179.97	-0.00	15.02
VALVE POS 2	PIJ = 284.0	Q-INF = .439	P-INF = .0062	RE = .0349	TO = 1704.			
P	1.8416-02	1.5375-01	2.3816-02	2.1115-01	9.6171-03	6.924-02	4.7968-03	1.5462-02
CP	2.7829-02	3.3608-01	4.0128-02	4.6884-01	7.7862-03	1.4515-01	3.1934-03	2.1099-02
P/P01	2.2648-02	1.8907-01	2.9288-02	2.5967-01	1.1827-02	8.5490-02	5.8989-03	1.9014-02
VALVE POS 3	PO = 284.1	Q-INF = .439	P-INF = .0062	RE = .0349	TO = 1706.			
P	1.5814-02	3.4924-02	3.5183-01	4.1787-01	4.6082-03	5.8704-02	1.5789-02	3.0103-03
CP	2.1896-02	6.5418-02	7.8716-01	9.2616-01	-3.6246-03	1.1958-01	2.1840-02	-7.2636-03
P/P01	1.9444-02	4.2941-02	4.3260-01	5.0764-01	5.6660-03	7.2180-02	1.9414-02	3.7014-03
VALVE POS 4	PO = 284.2	Q-INF = .439	P-INF = .0062	RE = .0348	TO = 1707.			
P	2.4021-02	1.0036-02	4.8312-01	3.2315-02	5.0089-03	1.9435-02	1.8787-02	1.8675-02
CP	4.0583-02	8.7343-03	1.0861+00	5.9464-02	-2.7124-03	3.0138-02	2.8664-02	2.8407-02
P/P01	2.9533-02	1.2338-02	5.9397-01	3.9729-02	6.1382-03	2.3894-02	2.3098-02	2.2959-02
VALVE POS 5	PO = 284.3	Q-INF = .439	P-INF = .0062	RE = .0349	TO = 1706.			
P	2.4222-02	6.0214-03	6.1681-01	2.5888-02	7.8139-03	1.1821-02	1.0543-02	1.7871-02
CP	4.1006-02	-4.1528-04	1.3897+00	4.2524-02	3.6642-03	1.2784-02	9.9890-03	2.6554-02
P/P01	2.9761-02	7.3986-03	7.5789-01	3.0581-02	9.6011-03	1.4525-02	1.3016-02	2.1959-02
VALVE POS 6	PO = 284.4	Q-INF = .440	P-INF = .0062	RE = .0349	TO = 1705.			
P	1.3452-01	4.8171-03	5.0274-01	3.9340-02	3.6465-02	1.0819-02	1.1952-03	1.2048-02
CP	2.9195-01	-3.1589-03	1.1298+00	7.5391-02	6.8849-02	1.0498-02	2.2519-03	1.3294-02
P/P01	1.6525-01	5.9174-03	6.1756-01	4.8325-02	4.4794-02	1.3290-02	8.8387-03	1.4800-02
VALVE POS 7	PO = 284.5	Q-INF = .440	P-INF = .0062	RE = .0349	TO = 1706.			
P	2.6263-01	5.2186-03	1.6531-01	2.9525-01	1.4005-01	9.8175-03	5.1765-03	6.4257-03
CP	5.8320-01	-2.2504-03	3.6185-01	6.5738-01	3.0440-01	8.2091-03	-2.3005-03	4.9509-04
P/P01	3.2248-01	6.4078-03	2.0298-01	3.6253-01	1.7196-01	1.2055-02	6.3808-03	7.8900-03
VALVE POS 8	PO = 284.6	Q-INF = .440	P-INF = .0062	RE = .0349	TO = 1707.			
P	3.2309-01	1.3528-01	3.6224-02	1.5656-01	2.3642-02	1.0018-02	5.5963-03	5.6225-03
CP	7.2063-01	2.9353-01	6.8260-02	3.4192-01	3.9647-02	8.6630-03	-1.3923-03	-1.3322-03
P/P01	3.9668-01	1.6610-01	4.4475-02	1.9222-01	2.9027-02	1.2300-02	6.8710-03	6.9032-03
VALVE POS 9	PO = 284.7	Q-INF = .440	P-INF = .0062	RE = .0349	TO = 1708.			
P	5.8672-01	4.5963-01	1.1007-02	1.3628-01	2.7248-02	1.2422-02	1.4790-02	3.0103-03
CP	1.3196+00	1.0307+00	1.0903-02	2.9568-01	4.7822-02	1.4118-02	1.9502-02	-7.2759-03
P/P01	7.2006-01	5.6409-01	1.3509-02	1.6726-01	3.3441-02	1.5245-02	1.8151-02	3.6945-03
VALVE POS 10	PO = 284.7	Q-INF = .440	P-INF = .0062	RE = .0349	TO = 1707.			
P	7.5307-01	7.3822-01	6.6044-03	2.0292-01	2.0637-02	1.6028-02	1.5390-02	4.6185-03
CP	1.6976+00	1.6639+00	8.9282-04	4.4712-01	3.2788-02	2.2314-02	2.0862-02	-3.6212-03
P/P01	9.2414-01	9.0592-01	8.1044-01	2.4902-01	2.5324-02	1.9669-02	1.8886-02	5.6676-03
VALVE POS 11	PO = 284.8	Q-INF = .440	P-INF = .0062	RE = .0349	TO = 1706.			
P	7.0563-01	7.2658-02	6.2041-03	2.0914-01	3.2257-02	6.1509-02	1.6989-02	4.8193-03
CP	1.5894+00	1.5099-01	-2.0594-05	4.6114-01	5.9183-02	1.2366-01	2.4486-02	-3.1676-03
P/P01	8.6570-01	8.9141-02	7.6115-03	2.5659-01	1.9375-02	7.5463-02	2.0843-02	5.9125-03
VALVE POS 12	PO = 284.8	Q-INF = .440	P-INF = .0062	RE = .0349	TO = 1707.			
P	5.2266-01	1.0517-01	4.8632-02	5.8408-02	5.7903-02	1.6229-02	1.3391-02	4.6185-03
CP	1.1737+00	2.2490-01	9.6404-02	1.1862-01	1.1747-01	2.2763-02	1.6314-02	-3.6230-03
P/P01	6.4128-01	1.2904-01	5.9670-02	7.1663-02	7.1044-02	1.9912-02	1.6430-02	5.6666-03



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RUN	GROUP	PROJECT NO	MACH NO	CONFIGURATION	S-ALPHA	S-ROLL	PSI	ALPHA
1.	21.	304244	10.06	4	4.97	179.97	-0.00	19.97
VALVE POS 2 PO = 284.8 Q-IMF = .440 P-IMF = .0062 RE = .0349 TO = 1706.								
P		3.7033-02	1.4572-01	3.1621-02	3.6008-01	5.8175-03	2.6642-02	3.7975-03
CP		7.0071-02	3.1696-01	5.7725-02	8.0400-01	6.1867-03	4.6425-07	-5.4410-03
P/P01		4.5476-02	1.7874-01	3.8780-02	4.4169-01	1.2042-02	3.2687-02	4.6581-03
VALVE POS 3 PO = 284.8 Q-IMF = .440 P-IMF = .0062 RE = .0349 TO = 1706.								
P		2.2760-01	3.2917-02	4.8973-01	4.5100-01	4.4078-03	3.4461-02	1.0993-02
CP		2.0300-01	6.0670-02	1.0986+00	1.0108+00	-5.1042-03	6.4178-02	1.0857-02
P/P01		2.7919-01	4.0377-02	6.0072-01	5.5322-01	5.4068-03	4.2272-02	1.3484-02
VALVE POS 4 PO = 284.8 Q-IMF = .440 P-IMF = .0062 RE = .0350 TO = 1706.								
P		2.0498-01	9.2328-03	6.3582-01	5.0781-02	4.8085-03	1.3825-02	1.2192-02
CP		4.5608-01	6.8549-03	1.4303+00	1.0124-01	3.1956-03	1.7286-02	1.3577-02
P/P01		2.5385-01	1.1323-02	7.7980-01	6.2279-02	5.8974-03	1.6955-02	1.4953-02
VALVE POS 5 PO = 284.8 Q-IMF = .440 P-IMF = .0062 RE = .0349 TO = 1707.								
P		1.2371-01	4.4157-03	7.5530-01	4.5463-02	7.6135-03	9.0160-03	7.1952-03
CP		2.6688-01	-4.0888-03	1.7015+00	9.0286-02	3.1750-03	6.3608-03	2.2248-03
P/P01		1.5171-01	5.4151-03	9.2625-01	5.6366-02	9.3367-03	1.1057-02	8.8237-03
VALVE POS 6 PO = 284.8 Q-IMF = .440 P-IMF = .0062 RE = .0350 TO = 1706.								
P		1.9934-01	3.6128-03	4.9533-01	6.7649-02	3.8468-02	8.2146-03	5.1965-03
CP		3.4785-01	-5.9118-03	1.1111+00	1.3954-01	7.3268-02	4.5418-03	-2.3142-03
P/P01		1.9542-01	4.4309-03	6.0749-01	8.2957-02	4.7179-02	1.0075-02	6.3732-02
VALVE POS 7 PU = 284.8 Q-IMF = .440 P-IMF = .0062 RE = .0350 TO = 1704.								
P		2.2280-01	4.0143-03	1.1788-01	1.7482-01	1.8132-01	7.8139-03	3.7975-03
CP		4.9200-01	-5.0000-03	2.5320-01	3.8301-01	3.9778-01	3.6313-03	-5.4925-03
P/P01		2.7325-01	4.9233-03	1.4433-01	2.1441-01	2.2238-01	9.5833-03	4.6574-03
VALVE POS 8 PO = 284.8 Q-IMF = .440 P-IMF = .0062 RE = .0350 TO = 1705.								
P		7.5948-01	1.2886-01	2.5417-02	1.8365-01	4.9488-02	8.2146-03	4.3971-03
CP		1.7114+00	2.7838-01	4.3614-02	4.0304-01	9.8748-02	4.5401-03	-4.1312-03
P/P01		9.3161-01	1.9802-01	3.1170-02	2.2522-01	6.0934-02	1.0074-02	3.3923-03
VALVE POS 9 PO = 284.8 Q-IMF = .440 P-IMF = .0062 RE = .0349 TO = 1707.								
P		9.4884-01	8.3818-01	1.1007-02	1.8707-01	5.7502-02	2.6183-02	2.6183-02
CP		2.1919+00	1.8904+00	1.0892-02	4.1094-01	1.1634-01	1.8383-02	4.5374-02
P/P01		1.1640+00	1.0282+00	1.3503-02	2.2948-01	7.0540-02	1.6468-02	3.2119-02
VALVE POS 10 PO = 284.8 Q-IMF = .440 P-IMF = .0062 RE = .0349 TO = 1708.								
P		7.8590-01	6.5794-01	6.0040-03	1.8907-01	2.4644-02	1.3424-02	3.0979-02
CP		1.7715+00	1.4808+00	-4.7750-04	4.1546-01	4.1873-02	1.6381-02	5.8268-02
P/P01		9.6401-01	8.0782-01	7.3847-03	2.2192-01	3.0229-02	1.6468-02	3.0000-02
VALVE POS 11 PO = 285.0 Q-IMF = .440 P-IMF = .0062 RE = .0349 TO = 1707.								
P		6.8221-01	8.8715-02	5.0033-03	1.6579-01	2.4844-02	3.4261-02	3.1179-02
CP		1.3352+00	1.8736-01	-2.7559-03	3.6240-01	4.2304-02	6.3691-02	5.6692-02
P/P01		8.3647-01	1.0878-01	6.1347-03	2.0338-01	2.8943-02	4.2008-02	3.8230-02
VALVE POS 12 PO = 285.0 Q-IMF = .440 P-IMF = .0062 RE = .0349 TO = 1707.								
P		5.6110-01	9.3934-02	8.4957-02	3.7886-02	2.1630-02	1.0819-02	1.4590-02
CP		1.2402+00	1.9921-01	1.7860-01	1.1716-01	3.5024-02	1.0453-02	1.9017-02
P/P01		6.8798-01	1.1217-01	1.0494-01	7.0877-02	2.6531-02	1.3266-02	1.7889-02

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RUN	GROUP	PROJECT NO	MACH NO	CONFIGURATION	S-ALPHA	S-ROLL	PSI	ALPHA
1.	22.	304244	10.06	4	10.05	179.97	-0.01	25.05
VALVE POS 2	PO = 294.9	Q-INF = .440	P-INF = .0062	RE = .0349	TO = 1709.			
P	9.9889-02	1.7221-01	5.5037-02	4.4318-01	8.8157-03	5.0089-02	3.5976-03	1.1647-02
CP	2.1200-01	3.7709-01	1.1721-01	9.9263-01	5.7074-03	9.9661-02	-5.9463-03	1.2338-07
P/P01	1.2751-01	2.1121-01	6.8235-02	5.4352-01	1.0812-02	6.1431-02	4.4122-03	1.4284-02
VALVE POS 3	PO = 285.0	Q-INF = .440	P-INF = .0062	RE = .0349	TO = 1709.			
P	3.2649-01	3.6530-02	8.3478-01	3.8356-01	4.2075-03	3.8869-02	1.1592-02	1.4458-02
CP	7.2750-01	6.8058-02	1.0821+00	8.5714-01	-4.5616-03	7.4172-02	1.2213-02	1.8722-02
P/P01	4.0038-01	4.4797-02	1.0231+00	4.7037-01	5.1597-03	4.7666-02	1.4216-02	1.7730-02
VALVE POS 4	PO = 285.0	Q-INF = .440	P-INF = .0062	RE = .0349	TO = 1709.			
P	2.0939-01	1.2444-02	4.3189-01	9.0723-02	5.6100-03	1.4225-02	1.2392-02	1.6265-02
CP	4.6142-01	1.4143-02	9.6675-01	1.9192-01	-1.3780-03	1.8188-02	1.4024-02	2.2821-02
P/P01	2.5673-01	1.5258-02	5.2954-01	1.1124-01	6.8785-03	1.7442-02	1.5194-02	1.9943-02
VALVE POS 5	PO = 284.7	Q-INF = .440	P-INF = .0062	RE = .0349	TO = 1710.			
P	1.7075-01	6.0214-03	4.9413-01	6.4028-02	7.6135-03	9.0160-03	7.7448-03	1.3655-02
CP	3.7384-01	-4.3779-04	1.1086+00	1.3136-01	3.1796-03	6.3662-03	3.5915-03	1.6905-02
P/P01	2.0945-01	7.3861-03	6.0611-01	7.8538-02	9.3390-03	1.1059-02	9.5614-03	1.6749-02
VALVE POS 6	PO = 284.9	Q-INF = .440	P-INF = .0062	RE = .0349	TO = 1708.			
P	2.0278-01	3.6128-03	4.6891-01	1.0613-01	7.5735-02	7.8139-03	5.3464-03	8.2324-03
CP	4.4653-01	-5.9117-03	1.0511+00	2.2708-01	1.5793-01	3.6317-03	-1.8600-03	4.5836-03
P/P01	2.4870-01	4.4309-03	5.7509-01	1.3022-01	9.2883-02	9.5892-03	6.6183-03	1.0097-02
VALVE POS 7	PO = 285.0	Q-INF = .440	P-INF = .0062	RE = .0349	TO = 1709.			
P	3.8754-01	3.6128-03	1.2668-01	1.3247-01	1.0338-01	7.6135-03	3.9973-03	4.8193-03
CP	8.6619-01	-5.9123-03	2.7364-01	2.8679-01	2.2072-01	3.1752-03	-5.0390-03	-3.1719-03
P/P01	4.7526-01	4.4305-03	1.5536-01	1.6245-01	1.2678-01	9.3367-03	4.9020-03	5.9100-03
VALVE POS 8	PO = 284.9	Q-INF = .440	P-INF = .0062	RE = .0348	TO = 1710.			
P	1.0904+00	2.0995-01	2.7618-02	1.5555-01	6.0107-02	8.2146-03	4.7968-03	5.0201-03
CP	2.4633+00	4.6290-01	4.8632-02	3.3931-01	1.2245-01	4.5453-03	-3.2202-03	-2.7124-03
P/P01	1.3375+00	2.5753-01	3.3878-02	1.9081-01	7.3724-02	1.0076-02	5.8839-03	6.1578-03
VALVE POS 9	PO = 284.9	Q-INF = .440	P-INF = .0062	RE = .0348	TO = 1710.			
P	8.6817-01	1.0040+00	1.2608-02	1.7904-01	8.4751-02	1.7631-02	5.2565-02	5.4217-03
CP	1.9584+00	2.2870+00	1.4528-02	3.9267-01	1.7844-01	2.5941-02	1.0531-01	-1.8004-03
P/P01	1.0649+00	1.2315+00	1.5466-02	2.1961-01	1.0396-01	2.1627-02	6.4478-02	6.6504-03
VALVE POS 10	PO = 284.9	Q-INF = .440	P-INF = .0062	RE = .0348	TO = 1709.			
P	6.5198-01	6.7640-01	6.4043-03	2.4206-01	2.0837-02	1.3424-02	5.4763-02	1.3547-02
CP	1.4671+00	1.5726+00	4.3080-04	5.3581-01	3.3220-02	1.6378-02	1.1030-01	1.6657-02
P/P01	7.9367-01	8.2963-01	7.8550-03	2.9689-01	2.5527-02	1.6545-02	6.7169-02	1.6615-02
VALVE POS 11	PO = 284.9	Q-INF = .440	P-INF = .0062	RE = .0349	TO = 1708.			
P	7.2965-01	9.9554-02	5.2035-03	3.4904-01	5.1692-02	1.0619-02	5.0366-02	4.6185-03
CP	1.6534+00	2.1204-01	-2.2983-03	7.7879-01	1.0331-01	1.0004-02	1.0030-01	-3.6272-03
P/P01	8.9486-01	1.2210-01	6.3817-03	4.2807-01	6.3396-02	1.3023-02	6.1171-02	5.6642-03
VALVE POS 12	PO = 284.8	Q-INF = .440	P-INF = .0062	RE = .0348	TO = 1709.			
P	6.6579-01	1.0999-01	8.7258-02	7.9081-02	7.1728-02	9.6171-03	2.1186-02	4.6185-03
CP	1.4990+00	2.3585-01	1.8419-01	1.6560-01	1.4889-01	7.7373-03	3.4029-02	-3.6228-03
P/P01	8.1689-01	1.3495-01	1.0706-01	9.7028-02	8.8006-02	1.1890-02	2.5994-02	5.6666-03

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RUN GROUP PROJECT NO MACH NO CONFIGURATION S-ALPHA S-ROLL PSI ALPHA  
1. 23. 304244 10.06 4 14.81 179.97 -.01 29.81

VALVE POS	P	PO	Q	U	INF	RE	RF	TO	VALVE POS	P	PO	Q	U	INF	RE	RF	TO
1	2171-01	1.8064-01	8.5257-02	1.1494+00	6.6118-03	3.0654-02	3.9973-03	9.8394-03	2	0718-01	3.8136-07	3.5163-01	4.5201-01	6.2110-03	2.6647-07	1.1992-02	1.3655-02
CP	2.6255-01	3.9652-01	1.7969-01	2.5985+00	9.1096-04	5.5565-02	5.0323-03	8.2479-03	CP	4.567-01	7.2608-02	7.8556-01	1.0133+00	5.9294-06	4.6482-02	1.3153-02	1.6734-02
P/PO1	1.4937-01	2.2164-01	1.0463-01	1.4106+00	8.1143-03	3.7621-02	4.9058-03	1.2075-02	P/PO1	2.4823-01	4.6822-02	4.3173-01	5.5496-01	7.6258-03	3.2717-02	1.4723-02	1.6765-02
VALVE POS 3	PO = 284.6	Q- INF = .440	P- INF = .0062	RE = .0348	TO = 1709.				VALVE POS 4	PO = 284.3	Q- INF = .439	P- INF = .0062	RE = .0347	TO = 1710.			
P	2.0718-01	3.8136-07	3.5163-01	4.5201-01	6.2110-03	2.6647-07	1.1992-02	1.3655-02	P	2.1759-01	1.2043-02	4.4370-01	9.7346-02	5.8103-03	9.4167-03	1.0593-02	1.3253-02
CP	4.567-01	7.2608-02	7.8556-01	1.0133+00	5.9294-06	4.6482-02	1.3153-02	1.6734-02	CP	4.8136-01	1.3303-02	9.9621-01	2.0755-01	-8.8876-04	7.3233-03	1.0002-02	1.6059-02
P/PO1	2.4823-01	4.6822-02	4.3173-01	5.5496-01	7.6258-03	3.2717-02	1.4723-02	1.6765-02	P/PO1	2.6759-01	1.4905-02	5.4545-01	1.1576-02	1.3022-02	1.6292-02	1.6292-02	1.6292-02
VALVE POS 5	PO = 284.0	Q- INF = .439	P- INF = .0062	RE = .0347	TO = 1711.				VALVE POS 6	PO = 283.9	Q- INF = .439	P- INF = .0062	RE = .0346	TO = 1712.			
P	1.5974-01	5.6201-03	5.3195-01	6.8042-07	7.2128-03	5.8103-03	6.9953-03	1.2249-02	P	2.1479-01	3.6128-03	4.8112-01	7.9984-02	1.0378-01	5.7093-03	5.9960-03	7.6305-03
CP	3.4997-01	-1.3104-03	1.1983+00	1.4090-01	2.3200-03	-8.7655-04	1.8243-03	1.3799-02	CP	4.7564-01	-5.8816-03	1.0829+00	1.6003-01	2.2253-01	-2.7415-03	-6.4757-04	3.2794-03
P/PO1	1.9656-01	6.9152-03	6.5456-01	8.3724-02	8.8752-03	7.1495-03	8.6076-03	1.5072-02	P/PO1	2.6441-01	4.4474-03	5.9226-01	9.8137-02	1.2776-01	6.4126-03	7.3810-03	9.3931-03
VALVE POS 7	PO = 283.6	Q- INF = .438	P- INF = .0062	RE = .0346	TO = 1711.				VALVE POS 8	PO = 283.3	Q- INF = .438	P- INF = .0062	RE = .0346	TO = 1711.			
P	5.6070-01	4.0143-03	1.3709-01	1.3227-01	6.6118-02	4.4078-03	3.9973-03	4.4177-03	P	6.2015-01	5.0921-01	2.6418-02	1.7522-01	7.8940-02	5.0089-03	4.9967-03	6.0207-03
CP	1.2656+00	-4.9580-03	2.9876-01	2.8776-01	1.3678-01	-4.0598-03	-4.9466-03	-4.0373-03	CP	1.4079+00	1.1471+00	4.6245-02	3.8627-01	1.6626-01	-2.6746-03	-2.7025-03	-3.6261-04
P/PO1	6.9086-01	4.9462-03	1.6892-01	1.6798-01	8.1466-07	5.4311-03	4.9253-03	5.4432-03	P/PO1	7.6503-01	6.2693-01	3.2589-02	2.1616-01	9.7382-02	6.1790-03	6.1639-03	7.4272-03
VALVE POS 9	PO = 283.2	Q- INF = .437	P- INF = .0062	RE = .0345	TO = 1713.				VALVE POS 10	PO = 283.0	Q- INF = .437	P- INF = .0062	RE = .0344	TO = 1715.			
P	8.9039-01	6.6356-01	1.1408-02	3.9440-01	1.0238-01	1.5027-02	6.6955-02	3.0120-03	P	7.6808-01	7.0210-01	5.4036-03	3.5125-01	1.5828-02	9.4167-03	8.3544-02	4.4177-03
CP	2.0218+00	1.5032+00	1.1964-02	8.8772-01	2.1994-01	2.0240-02	1.3898-01	-7.2328-03	CP	1.7434+00	1.5924+00	-1.7559-03	7.8960-01	2.2097-02	7.4268-03	1.7704-01	-4.0119-03
P/PO1	1.0991+00	8.1913-01	1.4082-02	4.8687-01	1.2638-01	1.8550-02	8.2653-02	3.7182-03	P/PO1	9.4980-01	8.6728-01	9.6750-03	4.3389-01	1.9552-02	1.1632-02	1.0320-01	5.4571-03
VALVE POS 11	PO = 282.8	Q- INF = .437	P- INF = .0062	RE = .0344	TO = 1715.				VALVE POS 12	PO = 282.4	Q- INF = .436	P- INF = .0062	RE = .0344	TO = 1713.			
P	7.8049-01	1.5616-01	4.6031-03	1.9068-01	3.6064-02	7.0125-03	7.8348-02	4.0161-03	P	6.6679-01	1.9429-01	1.0087-01	5.1784-02	3.5263-02	6.8121-03	2.0786-02	4.4177-03
CP	1.7730+00	3.4343-01	-3.5806-03	2.248-01	6.8456-02	1.9362-03	1.6527-01	-4.9247-03	CP	1.5145+00	4.3128-01	2.1711-01	1.0459-01	6.6717-02	1.4957-03	3.3530-02	-3.9934-03
P/PO1	9.6478-01	1.9303-01	5.6899-03	2.3570-01	4.5580-02	8.6682-03	9.6847-02	4.9643-03	P/PO1	8.2522-01	2.4045-01	1.2483-01	6.4088-02	4.3641-02	8.4307-03	2.5725-02	5.4673-03

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RUN	GROUP	PROJECT NO	MACH NO	CONFIGURATION	S-ALPHA	S-ROLL	PSI	ALPHA
1.	24.	304244	10.06	4	-14.98	-02	-00	30.02
<p>VALVE POS 2 PO = 284.7 Q-INF = .440 P-INF = .0062 RE = .0353 TO = 1696.</p> <p>P 1.2091-01 1.7904-01 9.0060-02 1.1704+00 6.4114-03 3.6064-02 3.5776-03 1.1245-02 .0000+00</p> <p>CP 2.6044-01 3.9244-01 1.9039-01 2.6435+00 4.9991-04 6.7775-07 5.9496-03 1.1416-02 .0000+00</p> <p>P/P01 1.4824-01 2.1951-01 1.1042-01 1.4349+00 7.8607-03 4.4216-02 4.4108-03 1.3787-02 .0000+00</p>								
<p>VALVE POS 3 PO = 284.6 Q-INF = .440 P-INF = .0062 RE = .0353 TO = 1697.</p> <p>P 2.2360-01 3.6178-02 3.3042-01 4.6445-01 5.6100-03 3.0855-02 1.1191-02 1.4859-02 .0000+00</p> <p>CP 4.9384-01 6.7956-02 7.3652-01 1.0418-01 -4.1030-03 5.5976-02 1.5848-02 1.9638-02 .0000+00</p> <p>P/P01 2.7426-01 4.4314-02 4.0528-01 5.6468-01 6.9810-03 3.7845-02 1.6180-02 1.8226-02 .0000+00</p>								
<p>VALVE POS 4 PO = 284.6 Q-INF = .440 P-INF = .0062 RE = .0352 TO = 1698.</p> <p>P 2.1819-01 1.2444-02 4.6411-01 8.5504-02 4.4078-03 9.2164-03 1.1392-02 1.4859-02 .0000+00</p> <p>CP 4.8169-01 1.4158-02 1.0405+00 1.8018-01 -4.1030-03 6.8237-03 1.1748-02 1.9647-02 .0000+00</p> <p>P/P01 2.6770-01 1.5267-02 5.6940-01 1.0490-01 5.4078-03 1.1307-02 1.3977-02 1.8231-02 .0000+00</p>								
<p>VALVE POS 5 PO = 284.6 Q-INF = .440 P-INF = .0062 RE = .0352 TO = 1698.</p> <p>P 1.6375-01 6.4228-03 5.3776-01 5.4193-02 6.0107-03 5.4096-03 7.5949-03 1.3253-02 .0000+00</p> <p>CP 3.5797-01 4.7576-04 1.2079+00 1.0403-01 -4.6079-04 -1.8266-03 3.1392-03 1.5996-02 .0000+00</p> <p>P/P01 2.0089-01 7.8800-03 6.5976-01 6.6487-02 7.3743-03 6.6369-03 9.3180-03 1.6260-02 .0000+00</p>								
<p>VALVE POS 6 PO = 284.3 Q-INF = .440 P-INF = .0062 RE = .0352 TO = 1697.</p> <p>P 2.2160-01 4.0143-03 4.6991-01 8.2694-02 1.1080-01 4.6082-03 4.9967-03 7.8313-03 .0000+00</p> <p>CP 4.8981-01 -4.9906-03 1.0545+00 1.7193-01 2.3784-01 -3.6400-03 -2.7565-03 3.6897-03 .0000+00</p> <p>P/P01 2.7208-01 4.9288-03 5.7696-01 1.0153-01 1.3604-01 5.6580-03 6.1350-03 9.6154-03 .0000+00</p>								
<p>VALVE POS 7 PO = 284.3 Q-INF = .440 P-INF = .0062 RE = .0352 TO = 1697.</p> <p>P 1.9555-01 4.0143-03 1.3209-01 1.3207-01 6.8321-02 4.2075-03 3.5976-03 4.6185-03 .0000+00</p> <p>CP 1.3948+00 -4.9906-03 2.8626-01 2.8622-01 1.4125-01 -4.5512-03 -5.9381-03 -3.6166-03 .0000+00</p> <p>P/P01 7.6069-01 4.9288-03 1.6218-01 1.6216-01 8.3886-02 5.1660-03 4.4172-03 5.6706-03 .0000+00</p>								
<p>VALVE POS 8 PO = 284.3 Q-INF = .439 P-INF = .0062 RE = .0348 TO = 1708.</p> <p>P 6.6119-01 5.1142-01 2.9420-02 1.9188-01 8.1144-02 4.8085-03 -2.9980-03 4.2169-03 .0000+00</p> <p>CP 1.4909+00 1.1500+00 5.2848-02 4.2266-01 1.7059-01 -3.1737-03 -7.2950-03 -4.5205-03 .0000+00</p> <p>P/P01 8.1255-01 6.2849-01 3.6154-02 2.3581-01 9.9720-02 5.9093-03 3.6843-03 5.1822-03 .0000+00</p>								
<p>VALVE POS 9 PO = 284.4 Q-INF = .439 P-INF = .0062 RE = .0344 TO = 1719.</p> <p>P 8.0391-01 6.0816-01 1.0207-02 4.0745-01 1.0819-01 1.7231-02 6.9554-02 3.4137-03 .0000+00</p> <p>CP 1.8170+00 1.3711+00 9.1293-03 9.1395-01 2.3232-01 2.5128-02 1.4431-01 -6.3438-03 .0000+00</p> <p>P/P01 9.8851-01 7.4781-01 1.2551-02 5.0101-01 1.3304-01 7.1187-02 8.5525-02 4.1975-03 .0000+00</p>								
<p>VALVE POS 10 PO = 284.6 Q-INF = .439 P-INF = .0062 RE = .0343 TO = 1722.</p> <p>P 7.9230-01 6.7841-01 5.2035-03 3.4984-01 2.5445-02 8.8157-03 8.3744-02 3.6145-03 .0000+00</p> <p>CP 1.7901+00 1.5308+00 -2.2698-03 7.8255-01 4.3825-02 5.9559-03 1.7658-01 -5.8883-03 .0000+00</p> <p>P/P01 9.1398-01 8.3398-01 6.3967-03 5.3006-01 3.1280-02 1.0837-02 1.0295-01 4.4433-03 .0000+00</p>								
<p>VALVE POS 11 PO = 284.5 Q-INF = .439 P-INF = .0062 RE = .0343 TO = 1724.</p> <p>P 7.5827-01 1.5937-01 3.8025-03 1.8325-01 3.5663-02 7.0125-03 7.9947-02 3.2129-03 .0000+00</p> <p>CP 1.7132+00 3.4892-01 -5.4570-03 4.0333-01 6.7122-02 1.8552-03 1.6800-01 -6.8003-03 .0000+00</p> <p>P/P01 9.3246-01 1.9598-01 4.6760-03 2.2535-01 4.3856-02 8.6234-03 9.8312-02 3.9509-03 .0000+00</p>								
<p>VALVE POS 12 PO = 284.5 Q-INF = .439 P-INF = .0062 RE = .0343 TO = 1724.</p> <p>P 6.7000-01 1.9228-01 9.7865-02 3.6738-02 3.3459-02 5.4096-03 1.5590-02 3.6145-03 .0000+00</p> <p>CP 1.5121+00 4.2390-01 2.0882-01 7.4125-02 6.2101-02 -1.7961-03 2.1394-02 -5.8855-03 .0000+00</p> <p>P/P01 8.2391-01 2.3645-01 1.2035-01 4.7636-02 4.1146-02 6.6523-03 1.9171-02 4.4448-03 .0000+00</p>								

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RUN	GROUP	PROJECT NO	MACH NO	CONFIGURATION	S-ALPHA	S-ROLL	PSI	ALPHA
1.	25.	304744	10.06	4	-10.06	-.02	-.00	34.94
<p>VALVE POS 2 PU = 284.5 Q-INF = .439 P-INF = .0062 RL = .0341 TO = 1724.</p>								
P	8.7278-02	1.6459-01	7.2849-02	4.0805-01	4.4078-03	1.0819-02	2.1985-03	7.8313-03
CP	1.8480-01	3.6100-01	1.5192-01	9.1591-01	-4.0729-03	1.0540-02	-9.1683-03	3.7299-03
P/POI	1.0738-01	2.0249-01	8.9628-02	5.0204-01	5.4231-03	1.3311-02	2.7049-03	9.6352-03
<p>VALVE POS 3 PU = 284.5 Q-INF = .439 P-INF = .0062 RL = .0341 TO = 1724.</p>								
P	1.9597-01	4.2953-02	5.5317-01	4.0364-01	2.6046-03	8.8157-03	7.1952-03	1.0241-02
CP	5.3247-01	8.3762-02	1.2464+00	9.0569-01	-8.1837-03	5.9701-03	2.2773-03	9.2181-03
P/POI	2.4107-01	5.2837-02	6.8047-01	4.9652-01	3.2040-03	1.0844-02	8.8510-03	1.2598-02
<p>VALVE POS 4 PU = 284.3 Q-INF = .439 P-INF = .0062 RC = .0341 TO = 1727.</p>								
P	2.5473-01	1.2846-02	3.9346-01	8.2846-02	2.6046-03	6.0107-03	7.1452-03	1.0843-02
CP	5.7696-01	1.5171-02	8.8303-01	1.7444-01	-8.1804-03	-4.1404-04	2.2648-03	1.0605-02
P/POI	3.1908-01	1.5811-02	4.8430-01	1.0178-01	3.2059-03	7.3983-03	8.8563-03	1.3347-02
<p>VALVE POS 5 PU = 284.2 Q-INF = .438 P-INF = .0062 RE = .0342 TO = 1726.</p>								
P	2.1839-01	6.0714-01	5.3916-01	5.1381-02	4.8085-03	4.2075-03	4.9467-03	9.4378-03
CP	4.8398-01	-3.8624-04	1.7156+00	1.0307-01	-3.1524-03	-4.5233-03	-2.7234-03	7.4055-03
P/POI	2.6888-01	7.4134-03	6.6380-01	6.3761-02	5.9202-03	5.1801-03	6.1518-03	1.1619-02
<p>VALVE POS 6 PU = 284.3 Q-INF = .439 P-INF = .0062 RE = .0342 TO = 1725.</p>								
P	3.1988-01	3.6128-03	4.6291-01	6.2422-02	1.0619-01	4.0071-03	3.7975-03	6.0241-03
CP	7.1526-01	-5.8816-03	1.0414+00	1.2821-01	2.2800-01	-4.9826-03	-5.4604-03	-3.8362-04
P/POI	3.9373-01	4.4469-03	5.6978-01	7.6833-02	1.3070-01	4.9322-03	4.6742-03	7.4148-03
<p>VALVE POS 7 PU = 284.3 Q-INF = .438 P-INF = .0062 RE = .0341 TO = 1727.</p>								
P	8.1993-01	3.2114-03	1.3409-01	2.2359-01	6.2110-02	4.0071-03	3.1979-03	3.8153-03
CP	1.8558+00	-6.7956-03	2.9168-01	4.9580-01	1.2753-01	-4.9809-03	-6.8265-03	-5.4185-03
P/POI	1.0094+00	3.9535-03	1.6507-01	2.7526-01	7.6462-02	4.9330-03	3.9388-03	4.6968-03
<p>VALVE POS 8 PU = 284.1 Q-INF = .438 P-INF = .0062 RE = .0341 TO = 1727.</p>								
P	9.1401-01	7.6673-01	3.0620-02	5.3029-01	8.3348-02	5.0089-03	3.1979-03	4.4177-03
CP	2.0714+00	1.7153+00	5.5747-02	1.1958+00	1.7606-01	-2.6906-03	-6.8229-03	-4.0391-03
P/POI	1.1258+00	9.4437-01	3.7715-02	6.5315-01	1.0266-01	6.1694-03	3.9388-03	5.4412-03
<p>VALVE POS 9 PU = 284.2 Q-INF = .438 P-INF = .0062 RE = .0341 TO = 1727.</p>								
P	7.9651-01	7.7235-01	1.1408-02	2.5892-01	1.0114-01	1.3424-02	5.9560-02	3.6145-03
CP	1.8030+00	1.7578+00	1.1905-02	5.7656-01	2.1670-01	1.6505-02	1.2176-01	-5.8737-03
P/POI	9.8089-01	9.5113-01	1.4048-02	3.1886-01	1.2460-01	1.6531-02	7.3947-02	4.4511-03
<p>VALVE POS 10 PU = 284.2 Q-INF = .438 P-INF = .0062 RE = .0342 TO = 1726.</p>								
P	8.0532-01	7.2458-01	5.4036-03	2.0453-01	2.9452-02	7.8139-03	8.1146-02	4.2169-03
CP	1.8229+00	1.6387+00	-1.7932-03	4.5243-01	5.3065-02	3.7059-03	1.7098-01	-4.5003-03
P/POI	9.9165-01	8.9223-01	6.6539-03	2.5185-01	3.9267-02	9.6219-03	9.9921-02	3.1926-03
<p>VALVE POS 11 PU = 284.1 Q-INF = .438 P-INF = .0062 RE = .0341 TO = 1726.</p>								
P	7.8610-01	2.3604-01	4.0027-03	1.6057-01	2.9853-02	5.6100-03	7.7348-02	3.6145-03
CP	1.7794+00	5.2440-01	-4.9874-03	3.5222-01	5.3990-02	-1.3203-03	1.6235-01	-5.8731-03
P/POI	9.6815-01	2.9070-01	4.9296-03	1.9776-01	3.6147-02	6.9092-03	9.5262-02	4.4515-03
<p>VALVE POS 12 PU = 284.1 Q-INF = .438 P-INF = .0062 RE = .0341 TO = 1726.</p>								
P	6.3917-01	2.8421-01	1.4470-01	4.4558-02	2.2240-02	4.8085-03	2.4783-02	4.0161-03
CP	1.4441+00	6.3430-01	3.1600-01	8.7540-02	3.6620-02	-3.1488-03	4.2424-02	-4.9568-03
P/POI	7.8719-01	3.5003-01	1.7821-01	5.4878-02	2.7390-02	5.9222-03	3.0523-02	4.9461-03

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RUN	GROUP	PROJECT NO	MACH NO	CONFIGURATION	S-ALPHA	S-ROLL	PSI	ALPHA
1.	26.	304244	10.06	4	-5.01	-.02	-.00	39.99
VALVE POS	2	PO = 284.1	Q-INF = .438	P-INF = .0062	RE = .0342	TO = 1724.		
P	1.1510-01	1.8426-01	1.0467-01	3.7313-01	6.8085-03	8.2146-03	2.3984-03	8.4337-03
CP	2.4844-01	4.0618-01	2.2464-01	8.3701-01	3.1507-03	4.6188-03	8.6485-03	5.1186-03
P/PO1	1.4174-01	2.2689-01	1.2889-01	4.5446-01	5.9212-03	1.0115-02	2.9534-03	1.0385-02
VALVE POS	3	PO = 284.1	Q-INF = .438	P-INF = .0062	RE = .0343	TO = 1723.		
P	2.6383-01	5.0178-02	5.5317-01	3.4723-01	2.4043-03	9.2164-03	5.9960-03	1.0843-02
CP	5.8766-01	1.0033-01	1.2476+00	7.7788-01	-8.6356-03	6.9020-03	-4.4328-04	1.0613-02
P/PO1	3.2485-01	6.1784-02	6.8111-01	4.2755-01	2.9603-03	1.1348-02	7.3828-03	1.3351-02
VALVE POS	4	PO = 284.0	Q-INF = .438	P-INF = .0062	RE = .0342	TO = 1723.		
P	3.9495-01	1.4451-02	4.0747-01	9.4536-02	2.6046-03	5.4096-03	5.9960-03	1.0040-02
CP	8.8702-01	1.8853-02	9.1559-01	2.0158-01	-8.1767-03	-1.7767-03	-4.3873-04	8.7886-03
P/PO1	4.8666-01	1.2800-02	5.0188-01	1.1644-01	3.2081-03	6.6630-03	2.3853-03	1.2366-02
VALVE POS	5	PO = 284.0	Q-INF = .438	P-INF = .0062	RE = .0343	TO = 1722.		
P	3.2989-01	6.0214-03	5.4096-01	6.3426-02	5.0089-03	4.4078-03	4.1972-03	8.4337-03
CP	7.3864-01	-3.7969-04	1.2293+00	1.3061-01	-2.6901-03	-4.0616-03	-4.5422-03	5.1248-03
P/PO1	4.0636-01	7.4172-03	6.6636-01	7.8128-02	6.1700-03	5.4296-03	5.1701-03	1.0389-02
VALVE POS	6	PO = 284.0	Q-INF = .438	P-INF = .0062	RE = .0342	TO = 1723.		
P	7.6828-01	3.2114-03	4.2909-01	6.0013-02	7.8139-02	4.4078-03	3.1979-03	5.4217-03
CP	1.7391+00	-6.7910-03	9.6507-01	1.2283-01	1.6420-01	-4.0607-03	-6.8219-03	-1.7471-03
P/PO1	9.4645-01	3.9562-03	5.2859-01	7.3931-02	9.6260-02	5.4300-03	3.9395-03	6.6790-03
VALVE POS	7	PO = 284.1	Q-INF = .438	P-INF = .0062	RE = .0341	TO = 1726.		
P	1.7632+00	3.6128-03	1.3589-01	6.7380-01	1.2582-01	4.6082-03	3.5976-03	3.8153-03
CP	4.0093+00	-5.8754-03	2.9597-01	1.5234+00	2.7299-01	-3.6041-03	-5.9102-03	-5.4135-03
P/PO1	2.1719+00	4.4503-03	1.6739-01	8.2498-01	1.5499-01	5.6764-03	4.4315-03	4.6596-03
VALVE POS	8	PO = 283.9	Q-INF = .438	P-INF = .0062	RE = .0342	TO = 1724.		
P	8.6036-01	1.1323+00	2.8819-02	2.5571-01	1.1140-01	6.6118-03	5.9960-03	7.8313-03
CP	1.9498+00	2.3718+00	5.1664-02	3.4957-01	2.4062-01	9.7261-04	-4.3292-04	3.7544-03
P/PO1	1.0602+00	1.3959+00	3.5512-02	3.1509-01	1.3751-01	8.1471-03	7.3884-03	9.6499-03
VALVE POS	9	PO = 283.9	Q-INF = .438	P-INF = .0062	RE = .0341	TO = 1726.		
P	8.4996-01	7.6873-01	1.2008-02	2.3182-01	1.4085-01	2.2640-02	9.6536-02	7.2289-03
CP	1.9264+00	1.7509+00	1.3225-02	5.1515-01	3.0745-01	3.7582-02	2.0628-01	2.3843-03
P/PO1	1.0475+00	9.4741-01	1.4799-02	2.8571-01	1.7359-01	2.7902-02	1.1897-01	8.9091-03
VALVE POS	10	PO = 283.9	Q-INF = .438	P-INF = .0062	RE = .0340	TO = 1729.		
P	8.2954-01	7.2096-01	6.2051-03	2.1737-01	2.3642-02	8.8157-03	1.0793-01	6.0241-03
CP	1.8803+00	1.6323+00	4.8510-05	4.8228-01	3.9871-02	6.0124-03	2.3235-01	-3.6264-04
P/PO1	1.0226+00	8.8875-01	7.6480-03	2.6796-01	2.9145-02	1.0867-02	1.3305-01	7.4261-03
VALVE POS	11	PO = 283.8	Q-INF = .438	P-INF = .0062	RE = .0340	TO = 1729.		
P	7.9030-01	3.9019-01	5.0033-03	1.7342-01	1.7832-02	6.4114-03	1.0713-01	5.2209-03
CP	1.7913+00	8.7123-01	-2.6899-03	3.8204-01	2.6616-02	5.2672-04	2.3061-01	-2.1929-03
P/PO1	9.7456-01	4.8116-01	6.1699-03	2.1385-01	2.1989-02	7.9062-03	1.3211-01	6.4381-03
VALVE POS	12	PO = 283.8	Q-INF = .438	P-INF = .0062	RE = .0340	TO = 1729.		
P	6.1725-01	5.8946-01	1.8392-01	5.2789-02	1.3822-02	3.4096-03	3.6176-02	4.4177-03
CP	1.3975+00	1.3119+00	4.0604-01	1.0647-01	1.7462-02	-1.7618-03	6.8522-02	-4.0278-03
P/PO1	7.6202-01	7.1580-01	2.2680-01	6.5095-02	1.7048-02	6.6709-03	4.4610-02	5.9477-03

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RUN	GROUP	PROJECT NO	MACH NO	CONFIGURATION	S-ALPHA	S-ROLL	PSI	ALPHA
1.	27.	304244	10.06	4	.01	-.02	.00	45.01
VALVE POS 2 PO = 283.9 Q-IMF = .438 P-IMF = .0062 RE = .0341 TO = 1726.								
P	1.2934-01	2.7257-01	1.6351-01	3.4242-01	6.6118-03	3.4862-02	4.9467-03	9.6386-03
CP	3.4972-01	6.0827-01	3.5924-01	7.6776-01	9.7782-04	6.5485-02	-2.7101-03	7.8893-03
P/P01	1.9641-01	3.3598-01	2.0155-01	4.2207-01	8.1499-03	4.2472-02	6.1591-03	1.1881-02
VALVE POS 3 PO = 283.8 Q-IMF = .438 P-IMF = .0062 RE = .0340 TO = 1729.								
P	4.9004-01	6.8644-02	5.5057-01	3.1733-01	3.4061-03	3.1656-02	7.3951-03	1.0241-02
CP	1.1053+00	1.4769-01	1.2436+00	7.1079-01	-6.3388-03	5.8197-02	2.7378-03	9.2751-03
P/P01	6.0429-01	6.4648-02	6.7893-01	3.9131-01	4.2002-03	3.9037-02	9.1142-03	1.2629-02
VALVE POS 4 PO = 283.8 Q-IMF = .438 P-IMF = .0062 RE = .0340 TO = 1730.								
P	9.0601-01	1.9670-02	4.0287-01	1.2986-01	4.0071-03	1.0018-02	6.9493-03	9.2364-03
CP	2.0558+00	3.0819-02	9.0629-01	2.8257-01	-4.9648-03	8.7674-03	1.8621-03	6.9834-03
P/P01	1.1173+00	2.4258-02	4.9684-01	1.4015-01	4.9418-03	1.2354-02	8.6270-03	1.1391-02
VALVE POS 5 PO = 283.9 Q-IMF = .438 P-IMF = .0062 RE = .0340 TO = 1728.								
P	5.6110-01	8.4300-03	5.3015-01	9.4938-02	5.6100-03	6.8171-03	5.9960-03	8.0321-03
CP	1.2673+00	5.1330-03	1.1967+00	2.0270-01	-1.3074-03	1.4381-03	-4.2575-04	4.2244-03
P/P01	6.9174-01	1.0399-02	6.5359-01	1.1704-01	6.9162-03	8.3982-03	7.3921-03	9.9023-03
VALVE POS 6 PO = 283.6 Q-IMF = .438 P-IMF = .0062 RE = .0341 TO = 1723.								
P	1.2736+00	4.8171-03	4.0467-01	6.7640-02	8.6754-02	7.8139-03	6.5956-03	5.4217-03
CP	2.8962+00	-3.1119-03	9.1061-01	1.4045-01	1.8413-01	3.7362-03	9.5221-04	-1.7304-03
P/P01	1.5711+00	5.9423-03	4.9919-01	8.3440-02	1.0782-01	9.6190-03	8.1962-03	6.6881-03
VALVE POS 7 PO = 283.5 Q-IMF = .437 P-IMF = .0062 RE = .0341 TO = 1724.								
P	1.1865+00	6.8243-03	1.5690-01	2.4587-01	1.4205-01	7.8139-03	7.7948-03	8.2329-03
CP	2.6983+00	1.4812-03	3.4458-01	4.6798-01	3.1063-01	3.7436-03	3.6999-03	4.7016-03
P/P01	1.4642+00	8.4218-03	1.9364-01	3.0143-01	1.7531-01	9.6431-03	9.6196-03	1.0160-02
VALVE POS 8 PO = 283.5 Q-IMF = .437 P-IMF = .0062 RE = .0341 TO = 1724.								
P	8.7218-01	1.0092+00	4.1828-02	2.1075-01	1.3865-01	8.6133-03	8.5943-03	1.0241-02
CP	1.9798+00	2.2930+00	8.1504-02	4.6768-01	3.0284-01	5.5157-03	5.5276-03	9.2922-03
P/P01	1.0764+00	1.2454+00	5.1620-02	2.6009-01	1.7110-01	1.0632-02	1.0608-02	1.2638-02
VALVE POS 9 PO = 283.5 Q-IMF = .437 P-IMF = .0062 RE = .0341 TO = 1723.								
P	8.6537-01	7.8399-01	1.4209-02	1.8787-01	2.0837-01	3.7867-02	1.4870-01	8.2329-03
CP	1.9641+00	1.7805+00	1.8342-02	4.1331-01	4.8220-01	7.2442-02	3.2580-01	4.7001-02
P/P01	1.0679+00	9.6744-01	1.7534-02	2.3183-01	2.5713-01	4.6728-02	1.8350-01	1.0159-02
VALVE POS 10 PO = 283.4 Q-IMF = .437 P-IMF = .0062 RE = .0342 TO = 1723.								
P	8.4855-01	7.2538-01	7.0047-03	1.7061-01	2.5445-02	1.0218-02	1.4630-01	7.6305-03
CP	1.9266+00	1.6449+00	1.9002-03	3.7607-01	4.4075-02	9.2498-03	3.2049-01	3.3316-03
P/P01	1.0476+00	8.9527-01	8.6482-03	2.1064-01	2.1415-02	1.2516-02	1.8043-01	9.4209-03
VALVE POS 11 PO = 283.3 Q-IMF = .437 P-IMF = .0062 RE = .0342 TO = 1721.								
P	6.0492-01	4.0903-01	5.8039-03	1.2705-01	2.4644-02	8.4150-03	1.3231-01	7.0281-03
CP	1.8268+00	9.2141-01	-8.4623-04	2.7645-01	4.2242-02	5.1253-03	2.8848-01	1.9537-03
P/P01	9.9378-01	5.0503-01	7.1656-03	1.5000-01	1.5000-01	1.0389-02	1.6336-01	8.6771-03
VALVE POS 12 PO = 283.3 Q-IMF = .437 P-IMF = .0062 RE = .0341 TO = 1726.								
P	6.3236-01	6.4670-01	3.8606-01	4.3153-02	3.6244-02	8.2144-03	4.0973-02	6.8273-03
CP	1.4325+00	1.4653+00	8.6905-01	8.4601-02	6.8841-02	4.6123-03	7.9612-02	1.4986-03
P/P01	7.8093-01	7.9869-01	4.7676-01	5.3292-02	9.5784-02	1.0144-02	5.0599-02	8.4313-03

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RUN	GROUP	PROJECT NO	MACH NO	CONFIGURATION	S-ALPHA	S-ROLL	PSI	ALPHA
1.	28.	304244	10.06		4.96	-.02	.00	49.96
VALVE POS 2 PO = 283.2 Q-IMF = .437 P-IMF = .0062 RC = .0342 TO = 1720.								
P		2.865-01	3.3594-01	1.7111-01	2.9264-01	3.6100-03	3.2660-02	7.947-03
CP		6.4164-01	7.5451-01	3.7733-01	6.5533-01	-1.2865-03	6.2881-02	4.1684-03
P/P01		3.5400-01	4.1494-01	2.1132-01	3.6140-01	6.9280-03	4.1568-02	9.8730-03
VALVE POS 3 PU = 283.1 Q-IMF = .437 P-IMF = .0062 RE = .0344 TO = 1716.								
P		1.0087+00	9.1124-02	5.4977-01	2.9003-01	4.4078-03	2.3442-02	1.1193-02
CP		2.2938+00	1.9437-01	1.2437+00	6.4947-01	-6.0351-03	3.9514-02	1.1888-02
P/P01		1.2459+00	1.1255-01	6.7906-01	3.5824-01	5.4444-03	2.8954-02	1.3825-02
VALVE POS 4 PO = 282.8 Q-IMF = .437 P-IMF = .0062 RE = .0344 TO = 1714.								
P		7.3165-01	2.4086-02	3.9686-01	2.1356-01	5.8103-03	1.0018-02	9.9933-03
CP		1.6610+00	4.1024-07	8.9451-01	4.7483-01	-8.1750-04	8.8156-03	8.7596-03
P/P01		9.0433-01	2.9770-02	4.9053-01	2.6396-01	7.1817-03	1.2382-02	1.2352-02
VALVE POS 5 PO = 282.8 Q-IMF = .437 P-IMF = .0062 RE = .0343 TO = 1716.								
P		5.4428-01	1.0839-02	5.2475-01	1.1441-01	7.4132-03	7.0125-03	9.3937-03
CP		1.2325+00	1.0704-02	1.1877+00	2.5251-01	2.8583-03	1.9405-03	7.3945-03
P/P01		6.7297-01	1.3401-02	6.4881-01	1.4794-01	9.1658-03	8.6704-03	1.1615-02
VALVE POS 6 PO = 282.9 Q-IMF = .437 P-IMF = .0062 RE = .0341 TO = 1722.								
P		1.1414+00	6.8243-03	4.0467-01	1.3869-01	1.5167-01	8.6153-03	9.9933-03
CP		2.6002+00	1.5098-03	9.1273-01	3.0354-01	3.3326-01	5.6120-03	8.7682-03
P/P01		1.4113+00	8.4376-03	5.0034-01	1.7148-01	1.8753-01	1.0652-02	1.2356-02
VALVE POS 7 PO = 282.4 Q-IMF = .437 P-IMF = .0062 RE = .0341 TO = 1722.								
P		1.6190+00	8.4300-03	1.7612-01	1.9489-01	1.0459-01	8.2146-03	9.7935-03
CP		3.6947+00	5.1908-03	3.8932-01	4.3233-01	2.2546-03	4.6974-03	8.3142-03
P/P01		2.0021+00	1.0423-02	2.1779-01	2.4101-01	1.2933-01	1.0158-02	1.2111-02
VALVE POS 8 PO = 282.9 Q-IMF = .437 P-IMF = .0062 RE = .0342 TO = 1720.								
P		8.9219-01	1.4391+00	4.5030-02	1.6218-01	1.6950-01	9.6171-03	9.5936-03
CP		2.0307+00	3.2819+00	8.9014-02	3.732-01	3.7410-01	7.9062-03	7.8524-03
P/P01		1.1039+00	1.7793+00	5.5676-02	2.0052-01	2.0957-01	1.1891-02	1.1862-02
VALVE POS 9 PU = 282.8 Q-IMF = .436 P-IMF = .0062 RE = .0341 TO = 1724.								
P		8.8359-01	7.9603-01	1.6011-02	1.4773-01	2.8751-01	7.4733-02	1.3751-01
CP		2.0107+00	1.8104+00	2.2569-02	3.2440-01	6.4473-01	1.5713-01	3.0099-01
P/P01		1.0930+00	9.8672-01	1.9806-02	1.8274-01	3.5566-01	9.2448-02	1.7010-01
VALVE POS 10 PO = 282.9 Q-IMF = .436 P-IMF = .0062 RE = .0340 TO = 1726.								
P		8.6937-01	7.4184-01	8.2052-03	1.3628-01	3.9871-02	1.2021-02	1.5909-01
CP		1.9781+00	1.6859+00	4.6832-03	2.9819-01	7.7247-02	1.3428-02	3.5046-01
P/P01		1.0734+00	9.1768-01	1.0150-02	1.6859-01	4.9322-02	1.4871-02	1.9681-01
VALVE POS 11 PO = 282.8 Q-IMF = .436 P-IMF = .0062 RE = .0341 TO = 1724.								
P		8.3234-01	6.4550-01	7.0047-03	9.9955-02	4.3077-02	1.0218-02	1.5949-01
CP		1.8936+00	1.4653+00	1.9340-03	2.1497-01	6.609-02	9.2992-03	3.5143-01
P/P01		1.0298+00	7.9864-01	8.6665-03	1.2367-01	5.3297-02	1.2642-02	1.9733-01
VALVE POS 12 PU = 282.8 Q-IMF = .436 P-IMF = .0062 RE = .0341 TO = 1722.								
P		6.6839-01	3.0901-01	2.0113-01	3.8537-02	4.7084-02	9.2164-03	3.5376-02
CP		1.5174+00	1.1523+00	4.4678-01	7.4189-02	9.3774-02	6.9994-03	6.6946-02
P/P01		8.2684-01	6.2947-01	2.9881-01	4.7672-02	5.8245-02	1.1491-02	4.3162-02

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RUN	GROUP	PROJECT NO	MACH NO	CONFIGURATION	S-ALPHA	S-ROLL	PSI	ALPHA
1.	29.	304244	10.06	4	10.05	-0.02	.00	55.05
VALVE POS 2	PO = 282.6	Q-1NF = .436	P-1NF = .0062	RE = .0343	TO = 1717.			
P	2.9066-01	4.1387-01	2.7939-01	6.0107-03	1.8833-02	9.5933-03	1.6466-02	.0000+00
CP	6.5198-01	4.3435-01	4.3214-01	-3.4586-04	2.9040-02	8.7812-03	2.3614-02	.0000+00
P/PDI	3.5959-01	5.1203-01	2.4091-01	3.4566-01	7.4362-03	2.3300-02	1.2363-02	2.0371-02
VALVE POS 3	PO = 282.6	Q-1NF = .436	P-1NF = .0062	RE = .0342	TO = 1720.			
P	5.1988-01	1.2123-01	5.5837-01	6.0107-03	1.3023-02	1.3991-02	2.0884-02	.0000+00
CP	1.2234+00	2.6378-01	1.2658+00	6.2633-01	3.4217-04	1.5733-02	1.7950-02	3.3751-02
P/PDI	6.6809-01	1.5002-01	6.9097-01	3.4574-01	7.4381-03	1.6116-02	1.7313-02	2.5843-02
VALVE POS 4	PO = 282.6	Q-1NF = .436	P-1NF = .0062	RE = .0342	TO = 1719.			
P	1.0543+00	2.8501-02	3.9827-01	1.6433-01	8.2146-03	9.0160-03	1.3591-02	1.8675-02
CP	2.4027+00	5.1213-02	6.9882-01	3.6270-01	4.7097-03	6.5468-03	1.7034-02	2.8687-02
P/PDI	1.3047+00	3.5276-02	6.9285-01	2.0342-01	1.0165-02	1.1151-02	1.6818-02	2.3110-02
VALVE POS 5	PO = 282.6	Q-1NF = .436	P-1NF = .0062	RE = .0343	TO = 1717.			
P	9.2407-01	1.6459-02	5.2615-01	1.2083-01	1.0419-02	9.2164-03	1.2991-02	1.6466-02
CP	2.1038+00	2.3604-02	1.1919+00	2.6283-01	9.7596-03	7.0042-03	1.5657-02	2.3621-02
P/PDI	1.1434+00	2.0365-02	6.5105-01	1.4951-01	1.2892-02	1.1404-02	1.6075-02	2.0374-02
VALVE POS 6	PO = 282.6	Q-1NF = .436	P-1NF = .0062	RE = .0344	TO = 1715.			
P	2.6426-01	1.1240-02	4.1308-01	1.1661-01	1.3344-01	9.8175-03	1.3391-02	9.6386-03
CP	2.1953+00	1.1633-02	9.3235-01	2.5308-01	2.9162-01	6.3741-03	1.6567-02	7.9642-03
P/PDI	1.1927+00	1.3903-02	5.1096-01	1.4423-01	1.6506-01	1.2144-02	1.6564-02	1.1923-02
VALVE POS 7	PO = 282.6	Q-1NF = .436	P-1NF = .0062	RE = .0343	TO = 1717.			
P	9.1641-01	1.0839-02	2.0754-01	1.5074-01	6.4515-02	9.4171-03	1.1392-02	1.0843-02
CP	2.0864+00	1.0722-02	4.5011-01	3.3138-01	1.3375-01	7.9226-03	1.1942-02	1.0733-02
P/PDI	1.1339+00	1.3411-02	2.5061-01	1.8652-01	7.9829-02	1.1900-02	1.4097-02	1.3417-02
VALVE POS 8	PO = 282.5	Q-1NF = .436	P-1NF = .0062	RE = .0342	TO = 1719.			
P	9.0280-01	8.6148-01	5.6037-02	1.2926-01	1.8293-01	1.0619-02	9.2536-03	1.1647-02
CP	2.0559+00	1.9611+00	1.1437-01	2.8226-01	4.0531-01	1.0227-02	7.8764-03	1.2584-02
P/PDI	1.1175+00	1.0663+00	6.9363-02	1.6000-01	2.2642-01	1.3154-02	1.1875-02	1.4416-02
VALVE POS 9	PO = 282.6	Q-1NF = .436	P-1NF = .0062	RE = .0342	TO = 1719.			
P	0.9700-01	0.0687-01	1.8212-02	1.1782-01	1.8573-01	4.4474-02	1.7388-01	1.0442-02
CP	2.0422+00	1.8354+00	2.7631-02	2.3298-01	5.1166-01	8.7847-02	3.8451-01	9.8171-03
P/PDI	1.1101+00	9.9857-01	2.2539-02	1.4581-01	2.2986-01	5.5046-02	2.1320-01	1.2923-02
VALVE POS 10	PO = 282.6	Q-1NF = .436	P-1NF = .0062	RE = .0342	TO = 1718.			
P	0.8839-01	7.6111-01	1.0007-02	1.1360-01	3.1095-02	1.4926-02	1.8947-01	9.0361-03
CP	2.0220+00	1.7303+00	0.8138-03	2.4629-01	5.7055-02	1.9860-02	4.2013-01	6.5894-03
P/PDI	1.0992+00	9.4169-01	1.2381-02	1.4036-01	3.8424-02	1.8344-02	2.3443-01	1.1180-02
VALVE POS 11	PO = 282.5	Q-1NF = .436	P-1NF = .0062	RE = .0343	TO = 1716.			
P	0.6117-01	0.7640-01	9.0060-03	0.5705-02	3.3860-02	1.2021-02	1.7508-01	6.8353-03
CP	1.9602+00	1.5389+00	4.2271-02	1.8237-01	6.3509-02	1.3440-02	2.8729-01	6.1358-03
P/PDI	1.0659+00	0.3718-01	1.1147-02	1.0608-01	1.1619-02	1.4879-02	2.1670-01	1.0935-02
VALVE POS 12	PO = 282.4	Q-1NF = .436	P-1NF = .0062	RE = .0343	TO = 1716.			
P	7.2184-01	0.0698-01	2.5417-01	3.0537-02	2.1656-02	1.2222-02	4.3371-02	9.4378-03
CP	1.6411+00	1.3777+00	5.6870-01	7.4247-02	5.8469-02	1.3904-02	0.5331-02	7.5206-03
P/PDI	0.9257-01	7.5138-01	3.1442-01	4.7709-02	3.9188-02	1.5129-02	5.3689-02	1.1683-02

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RUN GROUP PROJECT NO MACH NO CONFIGURATION S-ALPHA S-ROLL PSI ALPHA  
1. 30. 304244 10.06 4 14.90 -.02 .00 59.90

VALVE POS	PO	Q-IMF	Q-IMF	P-IMF	RE	TO	VALVE POS	PO	Q-IMF	Q-IMF	P-IMF	RE	TO
P	2.2340-01	5.0299-01	2.8519-01	2.6914-01	5.2093-03	1.3224-02	9.5236-03	1.6867-02	0.000+00				
CP	4.9845-01	1.1400+00	6.4023-01	6.0344-01	-2.1685-03	1.6220-02	7.8111-03	2.4580-02	0.000+00				
P/PO1	2.7671-01	6.2302-01	3.5325-01	3.3339-01	6.4524-03	1.6379-02	1.1983-02	2.0893-02	0.000+00				
VALVE POS 3	PO = 282.5	Q-IMF = .436	Q-IMF = .436	P-IMF = .0062	RE = .0342	TO = 1717.							
P	4.9901-01	1.6499-01	5.4957-01	2.6479-01	4.4078-03	9.6171-03	1.2991-07	1.9880-02	0.000+00				
CP	1.0360+00	1.6417-01	1.2460+00	5.9750-01	-4.0140-03	7.9301-03	1.5667-02	3.1460-02	0.000+00				
P/PO1	5.6697-01	2.0422-01	6.8025-01	3.3018-01	5.4560-03	1.1404-02	1.6081-02	2.4607-02	0.000+00				
VALVE POS 4	PO = 283.6	Q-IMF = .438	Q-IMF = .438	P-IMF = .0062	RE = .0344	TO = 1716.							
P	6.6379-01	4.5361-02	3.8906-01	1.4311-01	5.6100-03	7.6135-03	1.0793-02	1.7871-02	0.000+00				
CP	1.5018+00	8.9472-02	8.7430-01	3.1770-01	-1.3083-03	3.2673-03	1.0528-02	2.6693-02	0.000+00				
P/PO1	8.1836-01	5.5924-02	4.7066-01	1.7443-01	6.9163-03	9.3865-03	1.3306-02	2.2033-02	0.000+00				
VALVE POS 5	PO = 284.4	Q-IMF = .439	Q-IMF = .439	P-IMF = .0062	RE = .0346	TO = 1714.							
P	8.4135-01	2.4888-02	5.2275-01	1.4793-01	8.4150-03	8.6153-03	8.3444-03	1.4659-02	0.000+00				
CP	1.9014+00	4.2545-02	1.1760+00	3.2267-01	5.0394-03	5.4955-03	4.9926-03	1.9255-02	0.000+00				
P/PO1	1.0341+00	3.0591-02	6.4252-01	1.8182-01	1.0343-02	1.0589-02	1.0318-02	1.8017-02	0.000+00				
VALVE POS 6	PO = 285.2	Q-IMF = .440	Q-IMF = .440	P-IMF = .0062	RE = .0348	TO = 1712.							
P	9.2602-01	1.7261-02	4.2769-01	1.2826-01	1.9735-01	8.0160-03	8.9940-03	7.6305-03	0.000+00				
CP	2.0885+00	2.5074-02	9.5697-01	2.7709-01	4.3398-01	6.3527-03	6.3027-03	3.2069-03	0.000+00				
P/PO1	1.1351+00	2.1159-02	5.2426-01	1.5722-01	2.4191-01	1.1052-02	1.1025-02	9.3535-03	0.000+00				
VALVE POS 7	PO = 285.8	Q-IMF = .441	Q-IMF = .441	P-IMF = .0062	RE = .0349	TO = 1710.							
P	9.1361-01	1.4451-02	2.3876-01	1.0517-01	6.3513-02	8.0142-03	9.1939-03	8.6345-03	0.000+00				
CP	2.0554+00	1.8617-02	5.2672-01	2.2412-01	1.2975-01	9.0355-03	6.7076-03	5.4406-03	0.000+00				
P/PO1	1.1173+00	1.7673-02	2.9148-01	1.2862-01	7.7671-02	9.8007-03	1.1243-02	1.0559-02	0.000+00				
VALVE POS 8	PO = 286.0	Q-IMF = .442	Q-IMF = .442	P-IMF = .0062	RE = .0350	TO = 1707.							
P	9.0621-01	8.5946-01	7.5050-02	9.9955-02	2.3141-01	8.4150-03	9.1939-03	1.0040-02	0.000+00				
CP	2.0370+00	1.9312+00	1.5575-01	2.1712-01	5.0967-01	4.9286-03	6.6916-03	8.6071-03	0.000+00				
P/PO1	1.1074+00	1.0502+00	9.1711-02	1.2214-01	2.8278-01	1.0283-02	1.1235-02	1.2269-02	0.000+00				
VALVE POS 9	PO = 283.6	Q-IMF = .438	Q-IMF = .438	P-IMF = .0062	RE = .0347	TO = 1709.							
P	8.9680-01	8.0085-01	2.3816-02	1.0477-01	2.3782-01	7.9141-02	2.2649-01	1.0040-02	0.000+00				
CP	2.0326+00	1.8136+00	4.0233-02	2.2500-01	5.2866-01	1.6650-01	5.0270-01	8.7947-03	0.000+00				
P/PO1	1.1050+00	9.8676-01	2.9345-02	1.2910-01	2.9303-01	9.7513-02	2.7902-01	1.2371-02	0.000+00				
VALVE POS 10	PO = 281.9	Q-IMF = .435	Q-IMF = .435	P-IMF = .0061	RE = .0343	TO = 1715.							
P	8.8679-01	7.6673-01	1.5610-02	1.0317-01	4.0813-02	1.4826-02	2.3264-01	1.0643-02	0.000+00				
CP	2.0230+00	1.7472+00	2.1738-02	2.2287-01	7.9770-02	1.9937-02	5.2030-01	1.0327-02	0.000+00				
P/PO1	1.0997+00	9.5084-01	1.9339-02	1.2794-01	5.0687-02	1.8387-02	2.8851-01	1.3198-02	0.000+00				
VALVE POS 11	PO = 281.0	Q-IMF = .434	Q-IMF = .434	P-IMF = .0061	RE = .0341	TO = 1717.							
P	8.6997-01	5.3510-01	1.3209-02	7.4264-02	3.4061-02	1.0819-02	2.3824-01	9.8394-03	0.000+00				
CP	1.9909+00	1.2191+00	1.6320-02	1.5703-01	6.4378-02	1.0813-02	5.3494-01	8.5546-03	0.000+00				
P/PO1	1.0824+00	6.6575-01	1.6434-02	9.2398-02	4.2377-02	1.3461-02	2.9641-01	1.2242-02	0.000+00				
VALVE POS 12	PO = 280.5	Q-IMF = .433	Q-IMF = .433	P-IMF = .0061	RE = .0340	TO = 1717.							
P	7.6508-01	3.9942-01	1.4790-01	3.1311-02	2.9252-02	1.1020-02	6.4557-02	9.4378-03	0.000+00				
CP	1.7518+00	9.0782-01	3.2726-01	5.8151-02	5.3398-02	1.1314-02	1.3489-01	7.6623-03	0.000+00				
P/PO1	8.5335-01	4.9771-01	1.8429-01	3.9014-02	3.6450-02	1.3731-02	8.8443-02	1.1760-02	0.000+00				

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RUN GROUP PROJECT NO MACH NO CONFIGURATION S-ALPHA S-ROLL PSI ALPHA  
 2 31. 304244 10.18 2 -14.44 180.00 -.00 60.06

VALVE POS	PU	Q-IMF	Q-IMF	P-IMF	RE	TO	VALVE POS	PU	Q-IMF	Q-IMF	P-IMF	RE	TO
P	2.0741-01	2.3155+00	2.7559+00	1.4705+00	1.0506-01	1.8036-01	2.3763-02	1.2854-01	0.0000+00				
CP	3.7283-01	9.7276-01	1.1604+00	6.1273-01	3.0971-02	-1.3022-02	2.1898-02	4.0978-02	0.0000+00				
P/POL	2.0841-01	5.3181-01	6.3298-01	3.3773-01	2.4129-02	4.1425-04	1.9238-02	2.9523-02	0.0000+00				
VALVE POS 3	PU = 1581.3	Q-IMF = 2.345	Q-IMF = 2.345	P-IMF = .0323	RE = .1601	TO = 1894.							
P	2.5442+00	5.4715-01	2.7589+00	1.4074+00	3.7492-02	5.1503-02	1.1895-01	5.9049-02	0.0000+00				
CP	1.0711+00	2.1952-01	1.1626+00	5.8635-01	2.1961-03	8.1707-03	3.4929-02	1.1388-02	0.0000+00				
P/POL	5.8481-01	1.2577-01	6.3418-01	3.2152-01	6.6180-03	1.1834-02	2.7342-02	1.3573-02	0.0000+00				
VALVE POS 4	PU = 1580.1	Q-IMF = 2.342	Q-IMF = 2.342	P-IMF = .0323	RE = .1592	TO = 1894.							
P	3.8358+00	1.3729-01	2.7379+00	6.5682-01	7.6186-02	4.2285-02	4.7174-02	5.4229-02	0.0000+00				
CP	1.6240+00	4.4827-02	1.1552+00	3.5705-01	1.6739-02	4.2636-03	6.3534-03	9.1635-03	0.0000+00				
P/POL	8.8284-01	3.1598-02	6.3016-01	1.9720-01	1.7535-02	9.7322-03	1.0995-02	1.2491-02	0.0000+00				
VALVE POS 5	PU = 1579.3	Q-IMF = 2.340	Q-IMF = 2.340	P-IMF = .0323	RE = .1588	TO = 1896.							
P	4.2113+00	9.5941-02	2.6884+00	3.0710-01	5.4132-02	4.9299-02	5.2177-02	5.9250-02	0.0000+00				
CP	1.7855+00	2.7201-02	1.1349+00	1.1742-01	9.3381-03	7.2728-03	8.5025-03	1.1525-02	0.0000+00				
P/POL	9.6991-01	2.2097-02	6.1917-01	7.0729-02	1.2467-02	1.1354-02	1.2017-02	1.3646-02	0.0000+00				
VALVE POS 6	PU = 1579.1	Q-IMF = 2.340	Q-IMF = 2.340	P-IMF = .0323	RE = .1584	TO = 1896.							
P	5.2773+00	7.4665-02	2.5892+00	6.6039-01	5.0924-02	5.1102-02	5.1177-02	5.9049-02	0.0000+00				
CP	1.8141+00	1.8116-02	1.0927+00	2.6841-01	7.9709-03	8.0468-03	8.0789-03	1.1443-02	0.0000+00				
P/POL	9.8529-01	1.7198-02	5.9643-01	1.5212-01	1.1730-02	1.1771-02	1.1769-02	1.3602-02	0.0000+00				
VALVE POS 7	PU = 1579.6	Q-IMF = 2.340	Q-IMF = 2.340	P-IMF = .0323	RE = .1585	TO = 1898.							
P	4.4215+00	5.7806-02	2.0951+00	6.5155-01	2.3397-01	4.9699-02	5.4976-02	5.7041-02	0.0000+00				
CP	1.8755+00	1.0909-02	8.8145-01	2.6461-01	8.6183-02	7.4952-03	9.6996-03	1.0582-02	0.0000+00				
P/POL	1.0184+00	1.3314-02	4.8255-01	1.5007-01	5.3889-02	1.1447-02	1.2662-02	1.3138-02	0.0000+00				
VALVE POS 8	PU = 1579.6	Q-IMF = 2.340	Q-IMF = 2.340	P-IMF = .0323	RE = .1584	TO = 1899.							
P	4.5261+00	4.8974-02	9.3365-01	6.3588-01	2.1132-01	5.0902-02	5.1177-02	5.3827-02	0.0000+00				
CP	1.9206+00	7.1375-03	3.8519-01	2.5744-01	7.6512-02	7.9613-03	8.0790-03	9.2114-03	0.0000+00				
P/POL	1.0427+00	1.1781-02	2.1504-01	1.4647-01	5.8676-02	1.1725-02	1.1788-02	1.2399-02	0.0000+00				
VALVE POS 9	PU = 1579.6	Q-IMF = 2.340	Q-IMF = 2.340	P-IMF = .0323	RE = .1581	TO = 1901.							
P	4.5026+00	3.9562+00	3.0488-01	6.1680-01	8.6416-02	1.2184-01	2.2110-01	5.0413-02	0.0000+00				
CP	1.9101+00	1.6772+00	1.1738-01	2.4983-01	2.4000-02	3.8288-02	8.0713-02	7.1759-03	0.0000+00				
P/POL	1.0374+00	9.1148-01	7.0702-02	1.4211-01	2.0370-02	2.6072-02	5.0940-02	1.1615-02	0.0000+00				
VALVE POS 10	PU = 1579.8	Q-IMF = 2.339	Q-IMF = 2.339	P-IMF = .0323	RE = .1578	TO = 1903.							
P	4.5327+00	3.9970+00	7.1721-02	5.7322-01	1.4025-01	9.8998-02	9.7357-02	5.3626-02	0.0000+00				
CP	1.9237+00	1.6947+00	1.9431-02	2.3123-01	2.9487-02	2.8526-02	2.7824-02	9.1317-03	0.0000+00				
P/POL	1.0443+00	9.2080-01	1.7987-02	1.3201-01	2.3327-02	2.2809-02	2.2431-02	1.2355-02	0.0000+00				
VALVE POS 11	PU = 1580.1	Q-IMF = 2.340	Q-IMF = 2.340	P-IMF = .0323	RE = .1576	TO = 1904.							
P	4.4726+00	3.9230+00	6.7104-02	5.5113-01	1.2671-01	6.9539-02	1.2774-01	6.0656-02	0.0000+00				
CP	1.6742+00	1.6630+00	1.4891-02	2.2177-01	4.0368-02	1.5932-02	4.0810-02	1.2135-02	0.0000+00				
P/POL	1.0304+00	9.0381-01	1.5460-02	1.2691-01	2.9197-02	1.6021-02	2.9430-02	1.3974-02	0.0000+00				
VALVE POS 12	PU = 1580.5	Q-IMF = 2.340	Q-IMF = 2.340	P-IMF = .0323	RE = .1575	TO = 1905.							
P	3.9499+00	8.0687-02	6.6103-02	4.2319-01	1.0947-01	6.2725-02	1.4054-01	5.6639-02	0.0000+00				
CP	1.6742+00	2.0690-02	1.4457-02	1.6769-01	3.2989-02	1.3014-02	4.6266-02	1.0413-02	0.0000+00				
P/POL	9.0291-01	1.8595-02	1.5226-02	9.7425-02	2.5214-02	1.4448-02	3.2371-02	1.3046-02	0.0000+00				

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RUN	GROUP	PROJECT NO	MACH NO	CONFIGURATION	S-ALPHA	S-ROLL	PSI	ALPHA
2.	32.	304244	10.18	2	-10.02	180.00	-00	64.98
VALVE POS 2	PO = 1580.8	Q-IMF = 2.340	P-IMF = .0323	RE = .1571	TO = 1906.			
P	4.7360+00	2.6989+00	2.5592+00	1.2154+00	9.6636-02	4.0080-03	8.4962-02	1.0283-01
CP	2.7411-01	1.1397+00	1.0800+00	5.0567-01	2.7512-02	-1.2078-02	2.2523-02	3.0161-02
P/POI	1.5517-01	6.2173-01	5.8955-01	2.7998-01	2.2262-02	9.2331-04	1.9572-02	2.3690-02
VALVE POS 3	PO = 1581.0	Q-IMF = 2.341	P-IMF = .0323	RE = .1574	TO = 1906.			
P	2.0666+00	6.6075-01	2.6373+00	1.2904+00	3.6890-02	4.8096-02	1.1055-01	5.5233-02
CP	8.6915-01	2.6851-01	1.1130+00	5.3753-01	1.9705-03	6.7582-03	3.3442-02	9.9075-03
P/POI	4.7590-01	1.5216-01	6.0733-01	2.9716-01	8.4952-03	1.1076-02	2.5459-02	1.2719-02
VALVE POS 4	PO = 1581.0	Q-IMF = 2.341	P-IMF = .0323	RE = .1574	TO = 1906.			
P	3.5564+00	2.1998-01	2.5877+00	5.5293-01	5.9546-02	4.4489-02	4.8978-02	5.0011-02
CP	1.5057+00	8.0196-02	1.0918+00	2.2245-01	1.1650-02	5.2171-03	7.1351-03	7.5764-03
P/POI	8.1899-01	5.0659-02	5.9274-01	1.2733-01	1.3112-02	1.0245-02	1.1279-02	1.1517-02
VALVE POS 5	PO = 1580.3	Q-IMF = 2.339	P-IMF = .0323	RE = .1574	TO = 1906.			
P	4.0310+00	1.5776-01	2.5727+00	2.1752-01	5.7140-02	5.6914-02	5.3976-02	5.6840-02
CP	1.7093+00	5.3644-02	1.0859+00	7.9187-02	1.0634-02	1.0337-02	9.2812-03	1.0505-02
P/POI	9.2873-01	3.6347-02	5.9274-01	5.0115-02	1.3165-02	1.3113-02	1.2436-02	1.3096-02
VALVE POS 6	PO = 1580.5	Q-IMF = 2.340	P-IMF = .0323	RE = .1572	TO = 1907.			
P	4.1001+00	1.0758-01	2.4631+00	5.8628-01	5.2528-02	6.0721-02	5.6575-02	6.0455-02
CP	1.7387+00	3.2193-02	1.0390+00	2.3680-01	8.6613-03	1.2163-02	1.0391-02	1.2049-02
P/POI	9.4459-01	2.4785-02	5.6744-01	1.3507-01	1.2102-02	1.3989-02	1.3034-02	1.3928-02
VALVE POS 7	PO = 1580.5	Q-IMF = 2.339	P-IMF = .0323	RE = .1568	TO = 1910.			
P	4.2233+00	7.3060-02	2.0576+00	5.7804-01	1.9989-01	6.3327-02	6.0173-02	6.3669-02
CP	1.7919+00	1.7447-02	8.6595-01	2.2336-01	7.1674-02	1.3285-02	1.3432-02	1.3432-02
P/POI	9.7325-01	1.6837-02	4.7416-01	1.3321-01	4.6064-02	1.4594-02	1.3867-02	1.4672-02
VALVE POS 8	PO = 1580.5	Q-IMF = 2.339	P-IMF = .0323	RE = .1569	TO = 1909.			
P	4.4584+00	5.5798-02	8.9512-01	5.5575-01	1.7443-01	7.0942-02	5.9574-02	6.5075-02
CP	1.8880+00	1.0064-02	3.6889-01	2.2380-01	6.0779-02	1.6538-02	1.1679-02	1.4030-02
P/POI	1.0251+00	1.2857-02	2.0626-01	1.2806-01	4.0192-02	1.6347-02	1.3727-02	1.4995-02
VALVE POS 9	PO = 1580.8	Q-IMF = 2.339	P-IMF = .0323	RE = .1570	TO = 1909.			
P	4.4696+00	3.7585+00	4.2927-01	5.3727-01	7.5184-02	1.0281-01	1.5033-01	6.0857-02
CP	1.8967+00	1.5928+00	1.6970-01	2.1586-01	1.8347-02	3.0154-02	5.0469-02	1.2223-02
P/POI	1.0297+00	8.6592-01	9.8899-02	1.2378-01	1.7322-02	2.3685-02	3.4635-02	1.4021-02
VALVE POS 10	PO = 1580.5	Q-IMF = 2.339	P-IMF = .0323	RE = .1571	TO = 1908.			
P	4.4966+00	3.9366+00	1.0516-01	4.9609-01	8.0798-02	8.6373-02	7.9365-02	6.0054-02
CP	1.9084+00	1.6690+00	3.1164-02	1.9828-01	2.0748-02	2.3131-02	2.0135-02	1.1880-02
P/POI	1.0360+00	9.0701-01	2.4230-02	1.1430-01	1.8616-02	1.5901-02	1.8286-02	1.3837-02
VALVE POS 11	PO = 1581.0	Q-IMF = 2.340	P-IMF = .0323	RE = .1571	TO = 1908.			
P	4.5267+00	3.9426+00	9.4146-02	4.8244-01	1.0466-01	7.7956-02	9.4958-02	6.8489-02
CP	1.9206+00	1.6710+00	2.6442-02	1.9237-01	3.0933-02	1.9223-02	2.6788-02	1.5477-02
P/POI	1.0426+00	9.0811-01	2.1685-02	1.5112-01	2.4105-02	1.7956-02	2.1872-02	1.5775-02
VALVE POS 12	PO = 1581.5	Q-IMF = 2.341	P-IMF = .0323	RE = .1572	TO = 1908.			
P	4.2083+00	6.6234-02	8.3330-02	3.6394-01	9.0421-02	4.8938-02	1.0395-01	6.1239-02
CP	1.7840+00	1.4595-02	2.1808-02	1.4168-01	2.4837-02	1.5660-02	3.0619-02	1.2379-02
P/POI	9.8898-01	1.5251-02	1.8187-02	8.3799-02	2.0820-02	1.5873-02	2.3936-02	1.6105-02

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RUN	GROUP	PROJECT NO	MACH NO	CONFIGURATION	S-ALPHA	S-ROLL	PSI	ALPHA
2.	33.	304244	10.18	2	-5.00	180.00	-.00	70.00
VALVE POS 2	PO = 1580.8	Q-IMF = 2.341	P-IMF = .0373	RE = .1579	TO = 1903.			
P	4.6281-01	3.2800+00	2.3760+00	1.1344+00	9.2225-02	3.2064-03	8.2763-02	7.6322-02
CP	1.8391-01	1.3873+00	1.0012+00	4.7078-01	2.5606-02	-1.2421-02	2.1564-02	1.8812-02
P/POI	1.0656-01	7.5523-01	5.4707-01	2.6119-01	2.1235-02	7.3829-04	1.9056-02	1.7573-02
VALVE POS 3	PO = 1580.5	Q-IMF = 2.341	P-IMF = .0323	RE = .1580	TO = 1907.			
P	1.6280+00	8.5464-01	2.4360+00	1.1584+00	3.8244-02	5.4709-02	9.9756-02	5.5834-02
CP	6.8170-01	3.5131-01	1.0269+00	4.8106-01	2.5683-03	9.5811-03	2.8625-02	1.0062-02
P/POI	3.7488-01	1.9679-01	5.6094-01	2.6673-01	8.8177-03	1.2598-02	2.2970-02	1.2857-02
VALVE POS 4	PO = 1580.3	Q-IMF = 2.341	P-IMF = .0323	RE = .1581	TO = 1901.			
P	3.2421+00	3.3318-01	2.4330+00	4.9444-01	5.0323-02	6.3126-02	6.0373-02	5.6639-02
CP	1.3927+00	1.2855-01	1.0257+00	1.9746-01	7.7083-03	1.3178-02	1.2002-02	1.0407-02
P/POI	7.5811-01	7.6726-02	2.6028-01	1.1387-01	1.1588-02	1.4537-02	1.3903-02	1.3043-02
VALVE POS 5	PO = 1580.5	Q-IMF = 2.341	P-IMF = .0323	RE = .1583	TO = 1900.			
P	3.8768+00	2.4286-01	2.4300+00	1.7956-01	4.4504-02	6.7335-02	5.9374-02	6.3267-02
CP	1.6207+00	8.9938-02	1.0241+00	6.2900-02	5.2194-03	1.4968-02	1.1568-02	1.3231-02
P/POI	8.8101-01	5.5912-02	5.5945-01	4.1338-02	1.0247-02	1.5502-02	1.3669-02	1.4565-02
VALVE POS 6	PO = 1580.5	Q-IMF = 2.341	P-IMF = .0323	RE = .1583	TO = 1900.			
P	3.9194+00	1.4973-01	2.3760+00	5.0192-01	5.7541-02	6.8337-02	6.3172-02	6.5075-02
CP	1.6604+00	5.0161-02	1.0010+00	2.0058-01	1.0785-02	1.5396-02	1.2422-02	1.4003-02
P/POI	9.0245-01	3.4472-02	5.4700-01	1.1555-01	1.3247-02	1.5733-02	1.4129-02	1.4982-02
VALVE POS 7	PO = 1580.1	Q-IMF = 2.341	P-IMF = .0323	RE = .1583	TO = 1900.			
P	4.0100+00	9.1525-02	2.0711+00	4.9951-01	1.6581-01	7.0741-02	6.3172-02	6.5075-02
CP	1.6995+00	2.5313-02	8.7107-01	1.9962-01	5.7048-02	1.6433-02	1.3194-02	1.4012-02
P/POI	9.2348-01	2.1078-02	4.7696-01	1.1503-01	3.8184-02	1.6291-02	1.4548-02	1.4986-02
VALVE POS 8	PO = 1580.3	Q-IMF = 2.341	P-IMF = .0323	RE = .1583	TO = 1900.			
P	4.2623+00	6.2221-02	1.1835+00	4.7842-01	1.6215-01	7.1944-02	6.3172-02	6.4071-02
CP	1.8070+00	1.2789-02	4.9176-01	1.9058-01	4.6931-02	1.6942-02	1.3195-02	1.3578-02
P/POI	9.8144-01	1.4327-02	2.7251-01	1.1016-01	3.2731-02	1.6566-02	1.4548-02	1.4753-02
VALVE POS 9	PO = 1580.3	Q-IMF = 2.341	P-IMF = .0323	RE = .1583	TO = 1900.			
P	4.3795+00	3.5366+00	5.9292-01	4.5793-01	6.3355-02	8.2966-02	1.0175-01	6.2865-02
CP	1.8570+00	1.4970+00	2.3949-01	1.9183-01	1.3273-02	2.1630-02	2.3618-02	1.3064-02
P/POI	1.0084+00	8.1433-01	1.3653-01	1.0544-01	1.4588-02	1.9104-02	2.3430-02	1.4475-02
VALVE POS 10	PO = 1580.3	Q-IMF = 2.341	P-IMF = .0323	RE = .1583	TO = 1900.			
P	4.4546+00	3.8189+00	1.5845-01	4.1716-01	6.5560-02	7.7194-02	6.8570-02	6.6882-02
CP	1.8891+00	1.6175+00	5.3894-02	1.6441-01	1.4215-02	1.9168-02	1.5501-02	1.4780-02
P/POI	1.0251+00	8.7933-01	3.6584-02	9.6055-02	1.5094-02	1.7762-02	1.5289-02	1.5400-02
VALVE POS 11	PO = 1580.3	Q-IMF = 2.342	P-IMF = .0323	RE = .1586	TO = 1897.			
P	4.5086+00	3.9155+00	1.4382-01	4.1754-01	8.5810-02	7.2745-02	7.5766-02	6.9293-02
CP	1.9113+00	1.6580+00	4.7618-02	1.6235-01	2.2848-02	1.7270-02	1.8559-02	1.5795-02
P/POI	1.0377+00	9.0116-01	3.3102-02	9.5490-02	1.7149-02	1.6743-02	1.7438-02	1.5948-02
VALVE POS 12	PO = 1580.3	Q-IMF = 2.341	P-IMF = .0323	RE = .1586	TO = 1898.			
P	4.3795+00	7.4665-02	1.1598-01	3.1031-01	7.7189-02	7.2745-02	7.9964-02	6.4071-02
CP	1.8566+00	1.8098-02	3.5743-02	1.1874-01	1.9175-02	1.7278-02	2.0361-02	1.3573-02
P/POI	1.0082+00	1.7189-02	2.6700-02	7.1497-02	1.2770-02	1.6743-02	1.8499-02	1.4750-02

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RUN	GROUP	PROJECT NO	MACH NO	CONFIGURATION	S-ALPHA	S-ROLL	PSI	ALPHA
2.	34.	304244	10.18	2	.04	180.00	-.00	75.04
VALVE POS 2	PO -1580.5	Q-IMF = 2.342	P-IMF = .0323	RE = .1586	TO = 1898.			
P	3.4851+01	3.8649+00	2.0275+00	7.8024-01	8.1599-02	4.4088-03	7.5167-02	5.5635-02
CP	1.3503-01	1.5512+00	8.5200-01	3.1739-01	2.1054-02	-1.1908-02	1.8307-02	9.4664-03
P/P01	8.0219-02	8.4357-01	4.6669-01	1.7959-01	1.8782-02	1.0148-03	1.7302-02	1.2806-02
VALVE POS 3	PO -1580.3	Q-IMF = 2.342	P-IMF = .0323	RE = .1587	TO = 1897.			
P	1.2796+00	9.4340-01	2.2194+00	9.5130-01	4.1501-02	5.7315-02	8.9360-02	5.6438-02
CP	5.3265-01	3.8908-01	9.3414-01	3.9501-01	3.9321-03	1.0685-02	2.4370-02	1.0311-02
P/P01	2.9455-01	2.1716-01	5.1097-01	2.2036-01	9.5532-03	1.3193-02	2.0370-02	1.2992-02
VALVE POS 4	PO -1580.3	Q-IMF = 2.342	P-IMF = .0323	RE = .1584	TO = 1896.			
P	3.0608+00	4.6204-01	2.2408+00	4.5090-01	5.2127-02	5.9920-02	5.7375-02	5.7844-02
CP	1.2932+00	1.8350-01	9.4302-01	1.7874-01	8.4674-03	1.1795-02	1.0708-02	1.0908-02
P/P01	7.0450-01	1.0635-01	5.1526-01	1.0378-01	1.1998-02	1.3792-02	1.3206-02	1.3314-02
VALVE POS 5	PO -1579.8	Q-IMF = 2.341	P-IMF = .0323	RE = .1590	TO = 1895.			
P	3.5625+00	3.3640-01	2.2814+00	1.6028-01	6.6362-02	6.0321-02	5.7974-02	6.4071-02
CP	1.5077+00	1.2988-01	9.6054-01	5.661-02	1.8552-02	1.1971-02	1.0969-02	1.3573-02
P/P01	8.2014-01	7.7444-02	5.2521-01	3.6899-02	1.8278-02	1.3887-02	1.3347-02	1.4750-02
VALVE POS 6	PO -1579.8	Q-IMF = 2.341	P-IMF = .0323	RE = .1589	TO = 1896.			
P	3.8526+00	1.9269-01	2.2844+00	4.3323-01	7.2978-02	6.1323-02	5.9773-02	6.3870-02
CP	1.5463+00	6.8511-02	9.6192-01	1.7125-01	1.7380-02	1.2402-02	1.1740-02	1.3490-02
P/P01	8.4097-01	4.4364-02	5.2595-01	9.9747-02	1.6803-02	1.4119-02	1.3762-02	1.4705-02
VALVE POS 7	PO -1580.3	Q-IMF = 2.342	P-IMF = .0323	RE = .1589	TO = 1896.			
P	3.7997+00	1.1079-01	2.0891+00	4.2419-01	1.3693-01	6.7735-02	6.2372-02	6.4271-02
CP	1.6087+00	3.3518-02	8.7825-01	1.6734-01	4.680-02	1.5132-02	1.2842-02	1.3653-02
P/P01	8.7458-01	2.5501-02	4.8085-01	9.7635-02	3.1518-02	1.5591-02	1.4356-02	1.4793-02
VALVE POS 8	PO -1580.5	Q-IMF = 2.343	P-IMF = .0323	RE = .1591	TO = 1895.			
P	4.0010+00	7.0651-02	1.4193+00	4.0672-01	1.1588-01	6.4333-02	6.3372-02	6.5075-02
CP	1.6942+00	1.6369-02	5.9207-01	1.5983-01	3.5678-02	1.4525-02	1.3262-02	1.3989-02
P/P01	9.2066-01	1.6257-02	3.2659-01	9.3589-02	2.6666-02	1.5264-02	1.4582-02	1.4974-02
VALVE POS 9	PO -1580.8	Q-IMF = 2.343	P-IMF = .0323	RE = .1593	TO = 1894.			
P	4.1392+00	3.3026+00	7.7320-01	3.9206-01	5.7541-02	6.8737-02	7.7566-02	6.4472-02
CP	1.7527+00	1.3953+00	3.1419-01	1.5353-01	1.0766-02	1.5944-02	1.9312-02	1.3724-02
P/P01	9.5221-01	7.5977-01	1.7787-01	9.0142-02	1.3237-02	1.5813-02	1.7844-02	1.4832-02
VALVE POS 10	PO -1580.5	Q-IMF = 2.343	P-IMF = .0323	RE = .1595	TO = 1892.			
P	4.3104+00	3.5970+00	2.2174-01	3.5389-01	5.2328-02	6.6132-02	5.4776-02	6.5878-02
CP	1.8256+00	1.5212+00	8.0838-02	1.3723-01	8.5400-03	1.4431-02	9.5846-03	1.4323-02
P/P01	9.9156-01	8.2745-01	5.1010-02	8.1410-02	1.2038-02	1.5213-02	1.2601-02	1.5155-02
VALVE POS 11	PO -1580.8	Q-IMF = 2.344	P-IMF = .0323	RE = .1597	TO = 1891.			
P	4.4996+00	3.8642+00	2.0612-01	3.4486-01	7.0372-02	6.8537-02	5.8974-02	7.0498-02
CP	1.9059+00	1.6348+00	7.9147-02	1.3334-01	1.6232-02	1.5450-02	1.1370-02	1.6286-02
P/P01	1.0348+00	8.8868-01	4.7404-02	7.9311-02	1.6184-02	1.5762-02	1.3563-02	1.6213-02
VALVE POS 12	PO -1580.5	Q-IMF = 2.344	P-IMF = .0323	RE = .1602	TO = 1888.			
P	4.5207+00	7.1074-02	1.4443-01	2.5950-01	4.6162-02	7.1142-02	6.3172-02	6.2665-02
CP	1.9274+00	1.9086-02	4.8670-02	9.6901-02	1.4432-02	1.6596-02	1.3156-02	1.2940-02
P/P01	1.0464+00	1.7123-02	3.3871-02	5.2471-02	1.5214-02	1.4358-02	1.4324-02	1.4410-02

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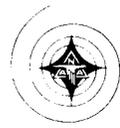
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RUN	GROUP	PROJECT NO	MACH NO	CONFIGURATION	S-ALPHA	S-ROLL	PSI	ALPHA
2.	35.	304244	10.18	2	4.99	180.00	-0.00	79.99

VALVE POS 2	PO = 1580.8	Q-INF = 2.344	P-INF = .0323	RE = .1600	TO = 1889.			
P	2.6203-01	4.1766+00	1.8203+00	9.6528-01	8.6612-02	4.4088-03	8.1764-02	4.2701-02
CP	9.7978-02	1.7677+00	7.6263-01	3.9744-01	2.3153-02	1.1910-02	2.1085-02	4.4571-03
P/P01	6.0251-02	9.6035-01	4.1855-01	2.2195-01	1.9915-02	1.0131-03	1.8800-02	9.8368-03
VALVE POS 3	PU = 1581.5	Q-INF = 2.346	P-INF = .0323	RE = .1601	TO = 1889.			
P	1.1054+00	1.1360+00	2.0245+00	8.6727-01	5.0944-02	5.1303-02	1.0094-01	5.3426-02
CP	4.2748-01	2.6603-01	8.4935-01	3.5596-01	1.1340-02	8.0818-03	2.9251-02	8.9069-03
P/P01	2.5405-01	3.1257-01	4.6529-01	1.9932-01	1.3547-02	1.1791-02	2.3202-02	1.2279-02
VALVE POS 4	PO = 1581.8	Q-INF = 2.347	P-INF = .0324	RE = .1608	TO = 1885.			
P	2.8295+00	6.4429-01	2.0756+00	4.6054-01	5.0323-02	5.6313-02	5.3776-02	5.5434-02
CP	1.1919+00	2.6074-01	8.7060-01	1.8744-01	7.6517-03	1.0204-02	9.1230-03	9.8295-03
P/P01	6.4995-01	1.4799-01	4.7671-01	1.0579-01	1.1559-02	1.2933-02	1.2733-02	1.0000+00
VALVE POS 5	PO = 1581.8	Q-INF = 2.347	P-INF = .0324	RE = .1608	TO = 1885.			
P	3.3011+00	4.5763-01	2.1146+00	1.4561-01	9.4631-02	5.7916-02	5.3176-02	5.8849-02
CP	1.3928+00	1.8120-01	8.8724-01	4.8755-02	2.6531-02	1.0887-02	8.8675-03	1.1284-02
P/P01	7.5827-01	1.0512-01	4.8574-01	3.3448-02	2.1737-02	1.3303-02	1.2713-02	1.3518-02
VALVE POS 6	PU = 1582.0	Q-INF = 2.348	P-INF = .0324	RE = .1604	TO = 1884.			
P	3.4063+00	2.5009-01	2.1852+00	3.6615-01	8.5409-02	5.6914-02	5.5575-02	5.7443-02
CP	1.4372+00	9.2742-02	9.1707-01	1.4218-01	2.2592-02	1.0454-02	9.8834-03	1.0679-02
P/P01	7.8222-01	5.7431-02	5.0182-01	8.4083-02	1.9613-02	1.3070-02	1.2762-02	1.3191-02
VALVE POS 7	PO = 1582.8	Q-INF = 2.348	P-INF = .0324	RE = .1607	TO = 1896.			
P	3.5414+00	1.3849-01	2.1131+00	3.6052-01	1.1087-01	6.1523-02	5.7974-02	5.9451-02
CP	1.4944+00	4.5189-02	8.8613-01	1.3974-01	3.3426-02	1.2410-02	1.0899-02	1.1528-02
P/P01	8.1303-01	3.1795-02	4.8513-01	8.2768-02	2.5454-02	1.4124-02	1.3310-02	1.3649-02
VALVE POS 8	PO = 1582.8	Q-INF = 2.347	P-INF = .0324	RE = .1602	TO = 1899.			
P	3.7877+00	8.3095-02	1.7422+00	4.9727-01	9.2233-02	5.8712-02	5.9374-02	6.1259-02
CP	1.5998+00	2.1608-02	7.2838-01	1.3415-01	2.6779-02	1.1223-02	1.1503-02	1.2306-02
P/P01	8.6984-01	1.9082-02	4.0008-01	7.9748-02	2.1870-02	1.3484-02	1.3635-02	1.4068-02
VALVE POS 9	PO = 1583.8	Q-INF = 2.347	P-INF = .0324	RE = .1593	TO = 1896.			
P	3.8778+00	3.0536+00	7.6896-01	3.2994-01	5.0323-02	6.1723-02	6.1972-02	6.1861-02
CP	1.6384+00	1.2872+00	3.1382-01	1.2680-01	7.6497-03	1.2507-02	1.2613-02	1.2565-02
P/P01	8.9058-01	7.0128-01	1.7660-01	7.5786-02	1.1557-02	1.4175-02	1.4232-02	1.4207-02
VALVE POS 10	PO = 1585.0	Q-INF = 2.349	P-INF = .0324	RE = .1592	TO = 1897.			
P	4.0400+00	3.3630+00	3.1870-01	2.9826-01	4.7717-02	6.7335-02	5.0178-02	6.4472-02
CP	1.7063+00	1.4180+00	1.2190-01	1.1320-01	6.5255-03	1.4878-02	7.5733-03	1.3659-02
P/P01	9.2719-01	7.7181-01	7.3150-02	6.9450-02	1.0951-02	1.5493-02	1.1516-02	1.4796-02
VALVE POS 11	PO = 1585.7	Q-INF = 2.350	P-INF = .0324	RE = .1595	TO = 1896.			
P	4.2984+00	3.7162+00	2.8284-01	2.8934-01	6.1149-02	6.9539-02	5.1777-02	6.5276-02
CP	1.8152+00	1.5675+00	1.0654-01	1.0730-01	1.2230-02	1.5749-02	8.2415-03	1.3987-02
P/P01	9.8591-01	8.5238-01	6.4874-02	6.6384-02	1.4026-02	1.5950-02	1.1876-02	1.4972-02
VALVE POS 12	PO = 1586.0	Q-INF = 2.351	P-INF = .0324	RE = .1598	TO = 1894.			
P	4.5717+00	1.7475-02	1.8209-01	2.1913-01	6.0548-02	7.4749-02	5.4976-02	6.1660-02
CP	1.9308+00	1.9164-02	6.3660-02	7.9415-02	1.1964-02	1.8003-02	9.5939-03	1.2437-02
P/P01	1.0482+00	1.1764-02	4.1749-02	5.0242-02	1.3883-02	1.7139-02	1.2495-02	1.4138-02

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RUN	GROUP	PROJECT NO	MACH NO	CONFIGURATION	S-ALPHA	S-ROLL	PSI	ALPHA
2.	36.	304244	10.18	2	10.08	180.00	-00	85.00
VALVE POS 2	PO #1585.7	Q-IMF = 2.351	P-IMF = .0324	RE = .1601	TO = 1892.			
P	1.9978+01	4.4136+00	1.7497+00	8.2729-01	1.1608-01	2.4048-03	1.6533-01	3.5751-02
CP	7.1181-02	1.8634+00	7.3041-01	3.3804-01	3.5584-02	-1.2767-02	5.6528-02	1.4150-03
P/PO1	4.5805-02	1.0119+00	4.0116-01	1.8768-01	2.6615-02	5.5137-04	3.7906-02	8.1969-03
VALVE POS 3	PU #1585.7	Q-IMF = 2.351	P-IMF = .0324	RE = .1601	TO = 1892.			
P	9.7026-01	1.4672+00	1.7542+00	8.3091-01	9.3629-02	5.8918-02	2.2510-01	5.4832-02
CP	3.9889-01	6.1024-01	7.3232-01	3.3962-01	2.6033-02	1.1269-02	8.1952-02	9.5313-03
P/PO1	2.2246-01	3.3639-01	4.0220-01	1.9051-01	2.1467-02	1.3509-02	5.1610-02	1.2572-02
VALVE POS 4	PO #1585.5	Q-IMF = 2.352	P-IMF = .0324	RE = .1607	TO = 1888.			
P	2.5322+00	8.6508-01	1.8143+00	4.3222-01	5.0524-02	5.3307-02	5.5775-02	5.1417-02
CP	1.0629+00	3.5406-01	7.5761-01	1.7000-01	7.6933-03	8.8767-03	9.9264-03	8.0732-03
P/PO1	5.8043-01	1.9830-01	4.1581-01	9.9076-02	1.1581-02	1.2219-02	1.2785-02	1.1786-02
VALVE POS 5	PU #1585.5	Q-IMF = 2.352	P-IMF = .0324	RE = .1608	TO = 1887.			
P	2.9767+00	6.0254-01	1.8836+00	1.7815-01	1.1969-01	5.2906-02	4.9978-02	5.2020-02
CP	1.2518+00	2.4239-01	7.8690-01	6.1955-02	3.7100-02	8.7039-03	7.4990-03	8.3271-03
P/PO1	6.8227-01	1.3810-01	4.3167-01	4.0833-02	2.7434-02	1.2126-02	1.1455-02	1.1923-02
VALVE POS 6	PO #1585.7	Q-IMF = 2.353	P-IMF = .0324	RE = .1610	TO = 1886.			
P	3.0969+00	3.3158-01	1.9825+00	2.9706-01	1.0887-01	5.4509-02	5.1377-02	5.2823-02
CP	1.3026+00	1.2715-01	8.2898-01	1.1333-01	3.2485-02	9.3795-03	8.0482-03	8.6628-03
P/PO1	7.0963-01	7.5979-02	4.5427-01	6.8528-02	2.4946-02	1.2490-02	1.1773-02	1.2104-02
VALVE POS 7	PO #1585.7	Q-IMF = 2.353	P-IMF = .0325	RE = .1615	TO = 1883.			
P	3.2931+00	1.8747-01	2.0501+00	2.9344-01	8.8015-02	5.5110-02	5.5575-02	5.5836-02
CP	1.3685+00	6.5869-02	8.5733-01	1.1090-01	2.3610-02	9.4276-03	9.8252-03	9.9359-03
P/PO1	7.4520-01	4.2944-02	4.6962-01	6.7220-02	2.0162-02	1.2624-02	1.2731-02	1.2791-02
VALVE POS 8	PO #1585.7	Q-IMF = 2.354	P-IMF = .0325	RE = .1616	TO = 1882.			
P	3.4934+00	1.0999-01	1.9164+00	2.8179-01	7.5785-02	6.2525-02	5.3776-02	5.5434-02
CP	1.4705+00	3.2943-02	8.0045-01	1.0544-01	1.8410-02	1.2776-02	9.0583-03	9.7627-03
P/PO1	8.0017-01	2.5194-02	4.3896-01	6.4545-02	1.7359-02	1.4322-02	1.2318-02	1.2697-02
VALVE POS 9	PO #1586.2	Q-IMF = 2.355	P-IMF = .0325	RE = .1620	TO = 1880.			
P	3.6285+00	2.7608+00	1.0693+00	2.7094-01	4.2905-02	5.4709-02	5.1177-02	5.5434-02
CP	1.5271+00	1.1586+00	4.4031-01	1.0127-01	4.4297-03	9.4426-03	7.9426-03	9.1503-03
P/PO1	8.3070-01	6.3204-01	2.4481-01	6.2029-02	9.8225-03	1.2529-02	1.1716-02	1.2691-02
VALVE POS 10	PO #1587.0	Q-IMF = 2.354	P-IMF = .0325	RE = .1611	TO = 1886.			
P	3.7727+00	3.0491+00	4.5811-01	2.5488-01	4.1902-02	6.5531-02	4.5980-02	5.6840-02
CP	1.5886+00	1.2812+00	1.8078-01	9.4462-02	4.0069-03	1.4043-02	5.7386-03	1.0351-02
P/PO1	8.6381-01	6.9812-01	1.0489-01	5.8357-02	9.5941-03	1.5004-02	1.0528-02	1.3014-02
VALVE POS 11	PO #1587.7	Q-IMF = 2.355	P-IMF = .0325	RE = .1611	TO = 1887.			
P	3.9860+00	3.3992+00	3.8720-01	2.3660-01	5.5335-02	6.5331-02	9.0977-02	5.4631-02
CP	1.6785+00	1.4294+00	1.5050-01	8.6663-02	9.7036-03	1.3947-02	7.8953-03	9.4045-03
P/PO1	9.1230-01	7.7801-01	8.8621-02	5.8315-02	1.2645-02	1.4953-02	1.1667-02	1.2504-02
VALVE POS 12	PO #1588.0	Q-IMF = 2.356	P-IMF = .0325	RE = .1612	TO = 1886.			
P	4.3795+00	4.9447-02	2.9338-01	1.8900-01	5.3932-02	6.7735-02	4.8778-02	7.0096-02
CP	1.4451+00	1.5687-02	8.9514-02	6.4432-02	9.1018-03	1.4961-02	6.9143-03	1.5963-02
P/PO1	1.0021+00	1.5891-02	5.5689-02	4.3246-02	1.2341-02	1.5499-02	1.1161-02	1.6039-02

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KUN	GROUP	PROJECT NO	MACH NO	CONFIGURATION	S-ALPHA	S-ROLL	PSI	ALPHA
Z.	37.	304244	10.18	2	14.85	180.00	-UU	89.85
VALVE POS 2 PU -1588.5 Q-IMF = 2.356 P-IMF = .0325 RE = .1611 TO = 1887.								
P	1.3812+00	4.4608+00	1.2766+00	6.9313-01	1.3032-01	5.4088-03	1.6113-01	3.1131-02
CP	4.5080-02	1.8707+00	5.2796-01	2.8035-01	4.1513-02	-1.1919-02	5.4588-02	-5.7873-04
P/P01	3.1735-02	1.0159+00	2.4208-01	1.5856-01	2.9813-02	1.0086-03	3.6861-02	7.1219-03
VALVE POS 3 PU -1588.5 Q-IMF = 2.356 P-IMF = .0325 RE = .1610 TO = 1888.								
P	8.0091-01	1.3328+00	1.3427+00	6.9855-01	1.3553-01	5.6112-02	2.2630-01	5.3225-02
CP	3.2613-01	5.5188-01	5.5605-01	2.8260-01	4.3731-02	1.0025-02	8.2255-02	8.7993-03
P/P01	1.8324-01	3.0494-01	3.0719-01	1.5982-01	3.1008-02	1.7838-02	5.1775-02	1.2177-02
VALVE POS 4 PD -1588.5 Q-IMF = 2.356 P-IMF = .0325 RE = .1610 TO = 1888.								
P	2.2378+00	1.0143+00	1.6235+00	3.8462-01	4.6113-02	4.5491-02	5.2777-02	4.8003-02
CP	9.3596-01	4.1671-01	6.7526-01	1.4945-01	5.7809-03	5.5170-03	8.6091-03	6.5830-03
P/P01	5.1199-01	2.3207-01	3.7143-01	8.7948-02	1.9550-02	1.0498-02	1.2075-02	1.0993-02
VALVE POS 5 PD -1588.5 Q-IMF = 2.356 P-IMF = .0325 RE = .1612 TO = 1886.								
P	2.6253+00	7.8720-01	1.6370+00	1.6168-01	1.5598-01	5.4309-02	4.9578-02	5.0614-02
CP	1.1005+00	3.2034-01	6.8107-01	5.4837-02	5.2588-02	9.2617-03	7.2537-03	7.6934-03
P/P01	6.0071-01	1.8012-01	3.7458-01	3.6996-02	3.5783-02	1.2427-02	1.1344-02	1.1581-02
VALVE POS 6 PD -1588.2 Q-IMF = 2.356 P-IMF = .0325 RE = .1611 TO = 1887.								
P	2.7394+00	4.6525-01	1.7377+00	2.3740-01	1.5598-01	5.2104-02	4.8378-02	5.0212-02
CP	1.1489+00	1.8368-01	7.2374-01	8.6972-02	5.2414-02	8.3249-03	6.7436-03	7.5218-03
P/P01	6.2679-01	1.0645-01	3.9759-01	5.4314-02	3.5689-02	1.1922-02	1.1069-02	1.1489-02
VALVE POS 7 PD -1588.5 Q-IMF = 2.357 P-IMF = .0325 RE = .1613 TO = 1886.								
P	2.9227+00	2.7578-01	1.4329+00	2.3238-01	6.9370-02	5.8717-02	5.1177-02	5.0614-02
CP	1.2264+00	1.0323-01	8.0639-01	8.4815-02	1.5645-02	1.1125-02	7.9258-03	7.6966-03
P/P01	6.6854-01	6.3083-02	4.4215-01	5.3156-02	1.5868-02	1.3431-02	1.1707-02	1.1578-02
VALVE POS 8 PU -1588.2 Q-IMF = 2.356 P-IMF = .0325 RE = .1613 TO = 1886.								
P	1.1930+00	1.5897-01	1.9980+00	2.1933-01	5.8945-02	7.4318-02	4.5180-02	4.8806-02
CP	1.3413+00	5.3673-02	8.3457-01	7.9290-02	1.1225-02	1.7678-02	5.2143-03	6.9229-03
P/P01	7.3050-01	3.6368-02	4.5733-01	5.0178-02	1.3485-02	1.8964-02	1.0245-02	1.1166-02
VALVE POS 9 PU -1588.0 Q-IMF = 2.356 P-IMF = .0325 RE = .1614 TO = 1885.								
P	3.2831+00	2.4936+00	1.4013+00	2.1189-01	3.6489-02	5.2305-02	4.1981-02	4.6597-02
CP	1.3796+00	1.0453+00	5.8092-01	7.6141-02	1.6985-03	8.4087-03	4.0274-03	5.9883-03
P/P01	7.5116-01	5.7092-01	3.2060-01	4.8480-02	8.3485-03	1.1967-02	9.6051-03	1.0661-02
VALVE POS 10 PD -1588.2 Q-IMF = 2.357 P-IMF = .0325 RE = .1614 TO = 1885.								
P	3.4573+00	2.8075+00	6.3599-01	2.0728-01	3.8294-02	6.2325-02	3.9582-02	4.8404-02
CP	1.4533+00	1.1776+00	2.5609-01	7.4166-02	2.4598-03	1.2657-02	3.0067-03	6.7502-03
P/P01	7.8089-01	5.4225-01	1.4559-01	5.7416-02	8.7600-03	1.9257-02	9.0348-03	1.1073-02
VALVE POS 11 PD -1588.2 Q-IMF = 2.357 P-IMF = .0325 RE = .1616 TO = 1884.								
P	3.6856+00	3.1442+00	5.1280-01	1.8980-01	5.0524-02	6.2325-02	4.7179-02	6.0455-02
CP	1.2500+00	1.3203+00	2.0379-01	6.6743-02	7.6472-02	1.2654-02	6.2281-03	1.1861-02
P/P01	8.4303-01	7.1918-01	1.1730-01	4.3415-02	1.1557-02	1.4256-02	1.0792-02	1.3828-02
VALVE POS 12 PD -1588.0 Q-IMF = 2.356 P-IMF = .0325 RE = .1616 TO = 1884.								
P	4.0431+00	6.7941-02	3.3913-01	1.6630-01	2.5228-02	8.6339-02	4.3980-02	9.2792-02
CP	1.7020+00	1.5000-02	1.3012-01	5.6783-02	8.5014-03	1.4359-02	4.8739-03	2.5588-02
P/P01	9.2494-01	1.5520-02	7.7583-02	3.8045-02	1.2017-02	1.5179-02	1.0962-02	2.1228-02

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PART II TABULATED DATA

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RUN	GROUP	PROJECT NO	MACH NO	CONFIGURATION	S-ALPHA	S-NOLL	PSI	ALPHA
1.	1.	30424	10.04	4	-0.00	0.00	-0.00	45.00
VALVE POS 2	PO = 201.2	Q-INF = .315	P-INF = .0045	RE = .0262	TO = 1654.			
P	2.8760-01	1.9600-01	3.4000-03	2.5620-01	3.1600-02	1.8200-02	2.2600-02	1.9800-02
CP	8.9906-01	6.0819-01	-3.3869-03	7.9935-01	8.6159-02	4.3609-02	5.7580-02	4.8689-02
P/PO1	4.9320-01	3.3612-01	5.8306-03	4.3935-01	5.4190-02	3.1211-02	3.8756-02	3.3955-02
VALVE POS 3	PO = 201.1	Q-INF = .315	P-INF = .0045	RE = .0262	TO = 1653.			
P	5.3760-01	2.7640-01	4.0220-01	2.2400-02	2.6600-02	2.5600-02	2.6400-02	2.6400-02
CP	1.6932+00	8.6363-01	1.2632+00	7.4549-01	5.6956-02	7.0295-02	6.7119-02	6.9660-02
P/PO1	9.2207-01	4.7407-01	6.8984-01	4.1027-01	3.8420-02	4.5623-02	4.3908-02	4.5280-02
VALVE POS 4	PO = 200.7	Q-INF = .314	P-INF = .0045	RE = .0262	TO = 1653.			
P	6.2000-03	2.9640-01	3.9240-01	2.1980-01	3.0800-02	1.7600-02	1.6000-02	2.5200-02
CP	5.5452-03	9.2898-01	1.2345+00	6.8523-01	8.3824-02	4.1821-02	3.6729-02	6.6004-02
P/PO1	1.0655-02	5.0936-01	6.7434-01	3.7772-01	5.2930-02	3.0245-02	2.7496-02	4.3306-02
VALVE POS 5	PO = 200.5	Q-INF = .314	P-INF = .0045	RE = .0262	TO = 1652.			
P	4.8000-03	3.1480-01	3.7320-01	2.3380-01	3.9800-02	2.1000-02	2.3800-02	1.9000-02
CP	1.1074-03	9.8866-01	1.1747+00	7.3062-01	1.1261-01	5.2715-02	2.2092-01	4.6344-02
P/PO1	8.2582-03	5.4160-01	6.4207-01	4.0224-01	6.8474-02	3.6129-02	1.7697-01	3.2689-02
VALVE POS 6	PO = 200.3	Q-INF = .314	P-INF = .0044	RE = .0261	TO = 1652.			
P	6.2020-01	3.1760-01	2.9800-01	1.3280-01	2.6400-02	2.2600-02	3.8000-02	1.1800-02
CP	1.9630+00	9.9832-01	9.3584-01	4.0918-01	6.9979-02	5.7865-02	1.0696-01	2.3434-02
P/PO1	1.0678+00	5.4681-01	5.1307-01	2.2864-01	4.5453-02	3.8911-02	6.5425-02	2.0316-02
VALVE POS 7	PO = 200.1	Q-INF = .313	P-INF = .0044	RE = .0261	TO = 1652.			
P	6.1460-01	3.2080-01	1.0580-01	1.2720-01	2.7400-02	1.9000-02	2.8400-02	1.3400-02
CP	1.9471+00	1.0095+00	3.2343-01	3.9172-01	7.3252-02	1.9003-02	7.6443-02	2.8577-02
P/PO1	1.0592+00	5.5286-01	1.8233-01	2.1921-01	4.7221-02	1.7923-02	4.8944-02	2.3093-02
VALVE POS 8	PO = 200.0	Q-INF = .313	P-INF = .0044	RE = .0261	TO = 1652.			
P	6.0600-01	5.5760-01	1.3640-01	1.1840-01	4.8600-02	1.9800-02	2.6000-02	1.2000-02
CP	1.9210+00	1.7665+00	4.2140-01	3.6392-01	1.4102-01	4.9046-02	6.8845-02	2.4137-02
P/PO1	1.0451+00	9.6166-01	2.3524-01	2.0420-01	8.3818-02	3.4148-02	4.4841-02	2.0696-02
VALVE POS 9	PO = 199.9	Q-INF = .313	P-INF = .0044	RE = .0261	TO = 1652.			
P	6.0000-01	3.9520-01	1.5720-01	1.1340-01	4.3800-02	1.1600-02	2.4200-02	1.0400-02
CP	1.9023+00	1.2482+00	4.8795-01	3.4804-01	1.2572-01	2.2869-02	6.3116-02	1.9036-02
P/PO1	1.0350+00	6.8175-01	2.7118-01	1.9562-01	7.5558-02	2.0011-02	4.1747-02	1.7941-02
VALVE POS 10	PO = 199.7	Q-INF = .313	P-INF = .0044	RE = .0261	TO = 1651.			
P	5.9300-01	5.1040-01	1.6080-01	1.1100-01	3.8000-02	8.0000-03	2.6200-02	1.2400-02
CP	1.8817+00	1.6176+00	4.9990-01	3.4069-01	1.0730-01	1.1392-02	6.9579-02	2.5459-02
P/PO1	1.0239+00	8.8127-01	2.7764-01	1.9165-01	6.5612-02	1.3813-02	4.5237-02	2.1410-02
VALVE POS 11	PO = 199.5	Q-INF = .312	P-INF = .0044	RE = .0260	TO = 1652.			
P	5.7000-01	4.2240-01	1.5860-01	1.0480-01	2.9400-02	1.7800-02	2.0800-02	1.2200-02
CP	1.8105+00	1.3380+00	4.9353-01	3.2131-01	7.9932-02	4.2798-02	5.2401-02	2.4871-02
P/PO1	9.8546-01	7.3027-01	2.7420-01	1.8119-01	5.0829-02	3.0774-02	3.5960-02	2.1092-02
VALVE POS 12	PO = 199.4	Q-INF = .312	P-INF = .0044	RE = .0260	TO = 1653.			
P	4.6200-01	4.1440-01	1.5780-01	8.4000-02	5.2000-03	2.7800-02	1.9200-02	8.6000-03
CP	1.4653+00	1.3129+00	4.9114-01	2.4481-01	2.4673-03	7.4840-02	4.7300-02	1.3355-02
P/PO1	7.9900-01	7.1668-01	2.7290-01	1.4523-01	8.9930-03	4.8078-02	3.3209-02	1.4873-02

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1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.
VALVE POS	VALVE POS	VALVE POS	VALVE POS	VALVE POS	VALVE POS	VALVE POS	VALVE POS	VALVE POS	VALVE POS	VALVE POS	VALVE POS
CP	CP	CP	CP	CP	CP	CP	CP	CP	CP	CP	CP
P/PO1	P/PO1	P/PO1	P/PO1	P/PO1	P/PO1	P/PO1	P/PO1	P/PO1	P/PO1	P/PO1	P/PO1
4.6580-01	1.1600-01	3.2000-03	2.7180-01	3.2600-02	3.0800-02	2.1800-02	2.1200-02	0.0000+00			
1.4723+00	3.5600-01	-3.9721-03	8.5321-01	8.9852-02	8.4107-02	5.5386-02	5.3471-02	0.0000+00			
8.0283-01	1.9993-01	5.5153-03	4.6846-01	5.6187-02	5.3085-02	3.7573-02	3.6539-02	0.0000+00			
PO = 199.8	Q-INF = .313	P-INF = .0044	RE = .0262	TO = 1647.							
6.1320-01	1.1440-01	3.9640-01	2.6480-01	2.3800-02	3.4200-02	2.4200-02	2.4200-02	0.0000+00			
1.9445+00	3.5122-01	1.2320+00	8.3162-01	6.1836-02	9.5055-02	5.0337-02	6.3113-02	0.0000+00			
1.0578+00	1.9735-01	6.8383-01	4.5680-01	4.1051-02	5.8998-02	3.4847-02	4.1747-02	0.0000+00			
PO = 199.7	Q-INF = .313	P-INF = .0044	RE = .0263	TO = 1645.							
5.6020-01	1.3040-01	3.9100-01	2.5700-01	2.5400-02	2.9200-02	1.3200-02	1.7800-02	0.0000+00			
1.7759+00	4.0250-01	1.2352+00	8.0704-01	6.6979-02	7.9122-02	2.7995-02	4.2644-02	0.0000+00			
9.6679-01	2.2504-01	6.7479-01	4.4353-01	4.3835-02	5.0393-02	2.2781-02	3.0719-02	0.0000+00			
PO = 199.6	Q-INF = .313	P-INF = .0044	RE = .0262	TO = 1645.							
6.8000-03	1.2720-01	3.8140-01	3.5040-01	3.2000-02	2.7800-02	1.5440-01	1.4000-02	0.0000+00			
7.5602-03	3.9257-01	1.2054+00	1.1063+00	8.8144-02	7.4713-02	4.9554-01	3.0584-02	0.0000+00			
1.1744-02	2.1968-01	6.5870-01	6.0516-01	5.5266-02	4.8012-02	2.7529-01	2.4179-02	0.0000+00			
PO = 199.3	Q-INF = .312	P-INF = .0044	RE = .0262	TO = 1645.							
5.4440-01	1.2000-01	3.2160-01	1.6020-01	2.0800-02	1.9600-02	6.0600-02	9.4000-03	0.0000+00			
1.7288+00	3.7002-01	1.0155+00	4.9872-01	5.2410-02	4.8568-02	1.7984-01	1.5911-02	0.0000+00			
9.45136-01	2.0750-01	5.5610-01	2.7701-01	3.5947-02	3.3892-02	1.0479-01	1.6254-02	0.0000+00			
PO = 199.2	Q-INF = .312	P-INF = .0044	RE = .0262	TO = 1645.							
5.4260-01	1.1640-01	9.5000-02	1.5440-01	2.2000-02	1.0000-02	3.7600-02	1.0400-02	0.0000+00			
7.2339+00	3.5867-01	2.9012-01	4.8040-01	5.6286-02	1.7848-02	1.0626-01	1.9124-02	0.0000+00			
9.3871-01	2.0137-01	1.6435-01	2.6712-01	3.8061-02	1.7300-02	6.5049-02	1.7992-02	0.0000+00			
PO = 199.1	Q-INF = .312	P-INF = .0044	RE = .0261	TO = 1646.							
5.3900-01	5.0080-01	7.5200-02	1.5060-01	7.2200-02	1.4400-02	3.2200-02	9.6000-03	0.0000+00			
1.7138+00	1.5913+00	2.2490-01	4.6862-01	2.1728-01	3.1980-02	8.9044-02	1.6591-02	0.0000+00			
9.3324-01	8.6710-01	1.3020-01	2.6075-01	1.2501-01	2.4933-02	5.5752-02	1.6622-02	0.0000+00			
PO = 198.9	Q-INF = .312	P-INF = .0044	RE = .0261	TO = 1647.							
5.3780-01	3.5320-01	7.5800-02	1.4940-01	7.0800-02	1.0400-02	2.9200-02	9.0000-03	0.0000+00			
1.7114+00	1.1191+00	2.2902-01	4.6517-01	2.1298-01	1.9183-02	7.9503-02	1.4691-02	0.0000+00			
9.3192-01	6.1204-01	1.3135-01	2.5889-01	1.2269-01	1.8022-02	5.0599-02	1.5596-02	0.0000+00			
PO = 198.9	Q-INF = .312	P-INF = .0044	RE = .0261	TO = 1647.							
5.3160-01	4.7520-01	7.9200-02	1.4580-01	4.6800-02	6.8000-03	2.7200-02	1.6400-02	0.0000+00			
1.6915+00	1.5105+00	2.3993-01	4.5762-01	1.3597-01	7.6327-03	7.3086-02	3.8434-02	0.0000+00			
9.2118-01	8.2345-01	1.3724-01	2.5265-01	8.1097-02	1.1783-02	4.7133-02	2.8419-02	0.0000+00			
PO = 198.8	Q-INF = .311	P-INF = .0044	RE = .0261	TO = 1647.							
5.1240-01	3.9920-01	7.3800-02	1.4480-01	3.3200-02	1.3000-02	2.2400-02	1.5600-02	0.0000+00			
1.6311+00	1.2676+00	2.2278-01	4.5075-01	9.2416-02	2.7556-02	5.7738-02	3.5904-02	0.0000+00			
8.8856-01	6.9226-01	1.2798-01	2.5110-01	2.2544-02	3.8844-02	2.7052-02	2.7052-02	0.0000+00			
PO = 198.5	Q-INF = .311	P-INF = .0044	RE = .0261	TO = 1646.							
4.1740-01	3.9560-01	6.8400-02	1.2460-01	4.8000-03	3.0000-02	2.1000-02	1.0400-02	0.0000+00			
1.3276+00	1.2575+00	2.0569-01	3.8635-01	1.2443-03	8.2251-02	5.3320-02	1.9246-02	0.0000+00			
7.2466-01	6.8681-01	1.1875-01	2.1632-01	8.3334-03	5.2084-02	3.6458-02	1.8056-02	0.0000+00			

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RUN GROUP PROJECT NO MACH NO CONFIGURATION S-ALPHA S-ROLL PSI ALPHA  
 1. 3. 304244 10.04 4 -10.00 .00 -.00 35.00

VALVE POS 2	PO = 204.6	Q-INF = .320	P-INF = .0045	RE = .0269	TO = 1646.			
P	4.2320-01	1.3160-01	4.4000-03	2.7360-01	3.2000-02	2.5200-02	2.2400-02	.0000+00
CP	1.3066+00	3.9654-01	-4.4805-04	8.3971-01	8.5690-02	6.4468-02	5.5105-02	.0000+00
P/P01	7.1333-01	2.2182-01	7.4165-03	4.6117-01	5.3938-02	4.2476-02	3.7420-02	.0000+00
VALVE POS 3	PO = 204.7	Q-INF = .321	P-INF = .0045	RE = .0269	TO = 1645.			
P	6.2200-01	1.5600-01	4.1240-01	2.6400-01	2.3200-02	2.8400-02	2.0000-02	.0000+00
CP	1.9264+00	4.7253-01	1.2725+00	8.0448-01	5.8202-02	7.4426-02	4.8219-02	.0000+00
P/P01	1.0481+00	2.6287-01	6.9491-01	4.4485-01	3.9093-02	4.7855-02	3.3701-02	.0000+00
VALVE POS 4	PO = 204.6	Q-INF = .320	P-INF = .0045	RE = .0269	TO = 1644.			
P	6.1000-01	1.7920-01	4.0500-01	2.4960-01	2.5400-02	2.4600-02	1.4000-02	.0000+00
CP	1.8897+00	5.4513-01	1.2499+00	7.6486-01	6.5097-02	6.1974-02	2.9516-02	.0000+00
P/P01	1.0283+00	3.0208-01	6.8271-01	4.2075-01	4.2817-02	4.1131-02	2.3600-02	.0000+00
VALVE POS 5	PO = 204.4	Q-INF = .320	P-INF = .0045	RE = .0269	TO = 1644.			
P	5.9200-01	1.6920-01	3.8840-01	3.2100-01	2.9600-02	2.3200-02	1.2720-01	.0000+00
CP	1.8353+00	5.1442-01	1.1992+00	9.8867-01	7.8294-02	5.8300-02	3.8321-01	.0000+00
P/P01	9.9889-01	2.8549-01	6.5535-01	5.4163-01	4.9945-02	3.9146-02	2.1463-01	.0000+00
VALVE POS 6	PO = 204.1	Q-INF = .320	P-INF = .0045	RE = .0266	TO = 1651.			
P	5.8900-01	1.7000-01	3.1560-01	1.5420-01	2.2400-02	1.7000-02	5.1200-02	.0000+00
CP	1.8285+00	5.1765-01	9.7315-01	4.6822-01	5.5896-02	3.9002-02	1.4599-01	.0000+00
P/P01	9.9518-01	2.8723-01	5.3324-01	2.8054-01	3.7847-02	2.8723-02	1.6220-02	.0000+00
VALVE POS 7	PO = 203.6	Q-INF = .319	P-INF = .0045	RE = .0266	TO = 1651.			
P	5.8620-01	1.8160-01	9.6000-02	1.4720-01	2.2000-02	9.6000-03	3.3000-02	.0000+00
CP	1.8249+00	5.5555-01	2.8700-01	4.4762-01	5.4839-02	1.5937-02	8.9349-02	.0000+00
P/P01	9.9321-01	3.0769-01	1.6266-01	2.4940-01	3.7275-02	1.6266-02	5.5913-02	.0000+00
VALVE POS 8	PO = 203.4	Q-INF = .318	P-INF = .0045	RE = .0265	TO = 1653.			
P	5.8380-01	5.3680-01	8.8800-02	1.4200-01	6.2200-02	1.2400-02	2.8600-02	.0000+00
CP	1.8199+00	1.6722+00	2.6479-01	4.3192-01	1.8122-01	2.4774-02	7.5668-02	.0000+00
P/P01	9.9049-01	9.1075-01	1.5066-01	2.4092-01	1.0553-01	2.1038-02	4.8524-02	.0000+00
VALVE POS 9	PO = 203.1	Q-INF = .318	P-INF = .0045	RE = .0264	TO = 1656.			
P	5.7660-01	3.7400-01	1.0000-01	1.4020-01	6.2600-02	9.6000-03	2.6800-02	.0000+00
CP	1.8003+00	1.1628+00	3.0051-01	4.2702-01	1.8282-01	1.6029-02	7.0156-02	.0000+00
P/P01	9.7992-01	6.3561-01	1.6995-01	2.3827-01	1.0639-01	1.6315-02	4.5546-02	.0000+00
VALVE POS 10	PO = 202.8	Q-INF = .317	P-INF = .0045	RE = .0263	TO = 1657.			
P	5.6620-01	4.9480-01	1.0120-01	1.3820-01	3.9400-02	6.8000-03	2.6400-02	.0000+00
CP	1.7703+00	1.5453+00	3.0477-01	4.2139-01	1.1000-01	7.2500-03	6.9024-02	.0000+00
P/P01	9.6371-01	8.4219-01	1.7225-01	2.3523-01	6.7062-02	1.1574-02	4.4933-02	.0000+00
VALVE POS 11	PO = 202.5	Q-INF = .317	P-INF = .0045	RE = .0262	TO = 1658.			
P	5.6020-01	4.1840-01	9.4000-02	1.3280-01	3.1000-02	1.1200-02	2.1200-02	.0000+00
CP	1.6910+00	1.3065+00	2.8254-01	4.0501-01	6.3671-02	2.1171-02	5.2737-02	.0000+00
P/P01	9.2086-01	7.1323-01	1.6024-01	2.2638-01	5.2845-02	1.9092-02	3.6139-02	.0000+00
VALVE POS 12	PO = 202.2	Q-INF = .316	P-INF = .0045	RE = .0262	TO = 1660.			
P	4.3120-01	4.1360-01	9.5400-02	1.1040-01	5.4000-03	2.6000-02	1.9800-02	.0000+00
CP	1.3491+00	1.2935+00	2.8744-01	3.3487-01	2.8908-03	6.8021-02	4.8419-02	.0000+00
P/P01	7.3624-01	7.0619-01	1.6289-01	1.8850-01	9.2200-02	4.4393-02	3.3807-02	.0000+00

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RUN	GROUP	PROJECT NO	MACH NO	CONFIGURATION	S-ALPHA	S-ROLL	PSI	ALPHA
1.	4.	204244	10.04	4	-5.03	.00	-5.00	39.97
<p>VALVE POS 2 PO = 201.4 Q-IMF = .315 P-IMF = .0045 RE = .0260 TO = 1663.</p>								
P	2.5420-01	1.5880-01	4.0000-01	2.6540-01	2.8000-02	2.0200-02	1.7400-02	.0000+00
CP	1.1100+00	4.8985-01	-1.4870-03	8.2820-01	7.4689-02	4.9932-02	4.1045-02	.0000+00
P/PO1	6.0711-01	2.7219-01	6.8361-03	4.5490-01	4.7993-02	3.4623-02	2.9824-02	.0000+00
<p>VALVE POS 3 PO = 201.2 Q-IMF = .315 P-IMF = .0045 RE = .0259 TO = 1664.</p>								
P	5.8540-01	2.0880-01	4.0360-01	2.5000-01	2.1800-02	2.4800-02	1.9000-02	.0000+00
CP	1.8458+00	6.4925-01	1.2746+00	7.8016-01	5.5093-02	6.2873-02	3.6018-02	.0000+00
P/PO1	1.0044+00	3.5827-01	6.9594-01	4.2896-01	3.7403-02	4.1180-02	2.7110-02	.0000+00
<p>VALVE POS 4 PO = 200.9 Q-IMF = .314 P-IMF = .0045 RE = .0259 TO = 1665.</p>								
P	6.1840-01	2.3360-01	3.9660-01	2.3160-01	2.4280-02	1.8200-02	1.4000-02	.0000+00
CP	1.9537+00	7.2919-01	1.2479+00	7.2283-01	6.2827-02	4.3734-02	1.5093-02	.0000+00
P/PO1	1.9627+00	4.0143-01	6.8155-01	3.9800-01	4.1587-02	3.1276-02	1.5810-02	.0000+00
<p>VALVE POS 5 PO = 200.7 Q-IMF = .314 P-IMF = .0045 RE = .0258 TO = 1667.</p>								
P	6.0840-01	2.3080-01	3.7780-01	2.7600-01	2.7800-02	1.8000-02	1.0400-02	.0000+00
CP	1.9246+00	7.2130-01	1.1897+00	8.6534-01	7.4466-02	4.3177-02	2.9110-01	.0000+00
P/PO1	1.0470+00	3.9717-01	6.5013-01	4.7493-01	4.7839-02	3.0973-02	1.6480-01	.0000+00
<p>VALVE POS 6 PO = 200.5 Q-IMF = .313 P-IMF = .0044 RE = .0257 TO = 1669.</p>								
P	6.0520-01	2.4080-01	3.0300-01	1.4420-01	2.2800-02	1.4600-02	7.0000-03	.0000+00
CP	1.9166+00	7.5405-01	9.5249-01	4.4586-01	5.8556-02	3.2395-02	1.2238-01	.0000+00
P/PO1	1.0426+00	4.1485-01	5.2201-01	2.4893-01	3.9280-02	2.5153-02	7.3733-02	.0000+00
<p>VALVE POS 7 PO = 200.3 Q-IMF = .313 P-IMF = .0044 RE = .0256 TO = 1670.</p>								
P	5.9960-01	2.5120-01	1.0100-01	1.3620-01	2.1600-02	7.2000-03	2.9600-02	.0000+00
CP	1.9008+00	7.8808-01	3.0838-01	4.2080-01	5.4801-02	8.8109-03	8.0351-02	.0000+00
P/PO1	1.0341+00	4.3322-01	1.7419-01	2.3489-01	3.7232-02	1.2417-02	5.1048-02	.0000+00
<p>VALVE POS 8 PO = 200.0 Q-IMF = .313 P-IMF = .0044 RE = .0256 TO = 1671.</p>								
P	5.9380-01	2.4720-01	1.0420-01	1.2980-01	5.4800-02	1.9400-02	7.4000-03	.0000+00
CP	1.8847+00	1.737+00	3.3183-01	4.0090-01	1.6108-01	1.9076-02	2.7159-02	.0000+00
P/PO1	1.0254+00	9.4493-01	1.8685-01	2.2415-01	9.4631-02	1.7959-02	4.6623-02	.0000+00
<p>VALVE POS 9 PO = 199.8 Q-IMF = .312 P-IMF = .0044 RE = .0253 TO = 1672.</p>								
P	5.9080-01	3.7360-01	1.2760-01	1.2680-01	5.3800-02	7.8000-03	2.5600-02	.0000+00
CP	1.8771+00	1.1818+00	3.9430-01	3.9174-01	1.5805-01	1.0786-02	6.7769-02	.0000+00
P/PO1	1.0213+00	6.4583-01	2.2058-01	2.1920-01	9.3003-02	1.3484-02	4.4254-02	.0000+00
<p>VALVE POS 10 PO = 199.7 Q-IMF = .312 P-IMF = .0044 RE = .0259 TO = 1673.</p>								
P	5.8040-01	4.9920-01	1.2340-01	1.2320-01	3.5800-02	9.6000-03	2.4200-02	.0000+00
CP	1.8454+00	1.5852+00	3.8759-01	3.8054-01	1.0032-01	3.7575-03	6.3351-02	.0000+00
P/PO1	1.0041+00	8.6366-01	2.1695-01	2.1315-01	6.1937-02	3.6885-03	4.1868-02	.0000+00
<p>VALVE POS 11 PO = 199.4 Q-IMF = .312 P-IMF = .0044 RE = .0255 TO = 1672.</p>								
P	5.5080-01	4.2120-01	1.2320-01	1.1680-01	2.8800-02	9.6000-03	2.0400-02	.0000+00
CP	1.7530+00	1.7372+00	3.8750-01	3.6035-01	7.8218-02	1.6618-02	5.1268-02	.0000+00
P/PO1	9.5425-01	7.2972-01	2.1691-01	2.0235-01	4.9896-02	1.6632-02	3.5343-02	.0000+00
<p>VALVE POS 12 PO = 199.1 Q-IMF = .311 P-IMF = .0044 RE = .0255 TO = 1670.</p>								
P	4.3920-01	4.1400-01	1.2580-01	9.4400-02	4.6000-03	2.2000-02	1.9400-02	.0000+00
CP	1.3964+00	1.3155+00	3.8985-01	2.8900-01	5.8902-04	5.6473-02	4.8123-02	.0000+00
P/PO1	7.6172-01	7.1881-01	2.1818-01	1.6372-01	7.4713-03	3.8193-02	3.3440-02	.0000+00

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RUN GROUP PROJECT NO 304244 10.03 5.01 5-ALPHA 3-ROLL .009 .000 50.01 ALPHA

VALVE POS 2	PO = 198.4	Q-IMF = .310	P-IMF = .0044	RE = .0255	TD = 1667.
P	2.2420-01	3.6000-01	2.160-01	2.6000-02	1.5400-02
CP	7.0836-01	2.9837-03	7.6443-01	6.5044-02	3.4136-02
P/PO1	3.9019-01	6.2651-03	4.2046-01	4.2812-02	2.6109-02
VALVE POS 3	PO = 198.1	Q-IMF = .310	P-IMF = .0044	RE = .0254	TD = 1668.
P	4.6520-01	3.5640-01	2.2500-01	2.4000-02	1.9400-02
CP	1.4870+00	1.1359+00	1.2534+00	6.5844-02	4.8418-02
P/PO1	8.1066-01	6.2166-01	6.8449-01	4.3216-02	3.3066-02
VALVE POS 4	PO = 197.9	Q-IMF = .310	P-IMF = .0044	RE = .0254	TD = 1668.
P	5.9080-01	3.6640-01	3.0380-01	2.0240-01	2.8200-02
CP	1.8942+00	1.1694+00	1.2256+00	6.3905-01	2.5968-02
P/PO1	1.0309+00	6.3912-01	6.6947-01	3.3305-01	4.9190-02
VALVE POS 5	PO = 197.6	Q-IMF = .309	P-IMF = .0044	RE = .0254	TD = 1668.
P	6.1340-01	3.7960-01	3.6460-01	1.9080-01	3.0400-02
CP	1.9701+00	1.2138+00	1.1653+00	6.0305-01	8.4137-02
P/PO1	1.0716+00	6.6312-01	6.3692-01	3.3331-01	5.3106-02
VALVE POS 6	PO = 197.5	Q-IMF = .309	P-IMF = .0044	RE = .0253	TD = 1669.
P	6.1360-01	3.8200-01	2.9080-01	1.1860-01	2.5000-02
CP	1.9720+00	1.2223+00	2.2709-01	3.6971-01	6.6735-02
P/PO1	1.0725+00	6.6770-01	5.0829-01	2.0730-01	4.3698-02
VALVE POS 7	PO = 197.3	Q-IMF = .309	P-IMF = .0044	RE = .0253	TD = 1669.
P	6.1220-01	3.7640-01	1.3060-01	1.1240-01	2.3000-02
CP	1.9694+00	1.2054+00	4.0897-01	3.3000-01	6.0335-02
P/PO1	1.0711+00	6.5856-01	2.2850-01	1.9666-01	6.0242-02
VALVE POS 8	PO = 197.2	Q-IMF = .308	P-IMF = .0044	RE = .0253	TD = 1669.
P	6.0700-01	3.5200-01	1.7820-01	1.0580-01	4.1200-02
CP	1.9540+00	1.7757+00	5.6362-01	3.2887-01	1.1940-01
P/PO1	1.0628+00	9.6652-01	3.1202-01	1.8525-01	7.2139-02
VALVE POS 9	PO = 197.0	Q-IMF = .308	P-IMF = .0044	RE = .0253	TD = 1669.
P	6.0260-01	3.6920-01	1.9400-01	1.0380-01	3.9800-02
CP	1.9412+00	1.1838+00	6.1532-01	3.2263-01	1.1496-01
P/PO1	1.0559+00	6.4693-01	3.3993-01	1.8188-01	6.9739-02
VALVE POS 10	PO = 196.8	Q-IMF = .308	P-IMF = .0044	RE = .0252	TD = 1670.
P	5.9420-01	5.1000-01	1.9000-01	9.8400-02	2.5000-02
CP	1.9160+00	1.4425+00	6.0301-01	3.0545-01	6.7023-02
P/PO1	1.0423+00	8.9460-01	3.3328-01	1.2261-01	4.3893-02
VALVE POS 11	PO = 196.7	Q-IMF = .308	P-IMF = .0044	RE = .0252	TD = 1671.
P	5.7380-01	4.0800-01	1.8640-01	8.9800-02	2.5400-02
CP	1.8513+00	1.3123+00	5.9181-01	2.7776-01	6.8390-02
P/PO1	1.0073+00	7.1627-01	3.2724-01	1.5765-01	4.4591-02
VALVE POS 12	PO = 196.5	Q-IMF = .307	P-IMF = .0044	RE = .0251	TD = 1671.
P	4.7740-01	4.0120-01	1.8660-01	7.1000-02	4.2000-02
CP	1.3390+00	1.2911+00	5.9357-01	2.1681-01	5.2252-04
P/PO1	8.3873-01	7.6480-01	3.2818-01	1.2474-01	7.3124-02

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RUN	GROUP	PROJECT NO	MACH NO	CONFIGURATION	S-ALPHA	S-ROLL	PSI	ALPHA
1.	6.	304244	10.03	4	10.09	.00	-.00	55.09
VALVE POS 2	PO = 195.7	Q-INF = .306	P-INF = .0043	RE = .0249	TO = 1676.			
P	1.6260-01	3.8840-01	3.2000-03	2.2660-01	2.1200-02	9.2000-03	1.1000-02	1.0800-02
CP	5.1731-01	1.2554+00	-3.7281-03	7.0699-01	5.5109-02	1.5884-02	2.1768-02	2.1114-02
P/PO1	2.8699-01	6.8554-01	5.6481-03	3.8937-01	3.7419-02	1.6238-02	1.9415-02	1.9062-02
VALVE POS 3	PO = 195.5	Q-INF = .306	P-INF = .0043	RE = .0249	TO = 1675.			
P	3.8960-01	4.2600-01	3.7920-01	2.0900-01	2.7200-02	1.4600-02	1.5600-02	1.5600-02
CP	1.2605+00	1.3796+00	1.2264+00	6.6960-01	7.4802-02	3.3579-02	2.7690-02	3.6850-02
P/PO1	6.8829-01	7.5260-01	6.6992-01	3.6923-01	4.8033-02	2.5793-02	2.2613-02	2.7560-02
VALVE POS 4	PO = 195.4	Q-INF = .305	P-INF = .0043	RE = .0249	TO = 1675.			
P	5.4900-01	4.2920-01	3.7280-01	1.8860-01	3.1400-02	9.4000-03	7.2000-03	1.1400-02
CP	1.7829+00	1.3907+00	1.2061+00	6.0316-01	8.8595-02	1.6581-02	9.3798-03	2.3128-02
P/PO1	9.7038-01	7.5863-01	6.5894-01	3.3336-01	5.5501-02	1.6615-02	1.2726-02	2.0150-02
VALVE POS 5	PO = 195.3	Q-INF = .305	P-INF = .0043	RE = .0249	TO = 1676.			
P	5.9280-01	4.3560-01	3.5840-01	1.5040-01	3.1800-02	1.1600-02	4.0000-02	8.6000-03
CP	1.9269+00	1.4122+00	1.1594+00	4.7829-01	8.9939-02	2.3799-02	1.1679-01	1.3972-02
P/PO1	1.0481+00	7.7019-01	6.3370-01	2.6593-01	5.6226-02	2.0510-02	7.0725-02	1.5206-02
VALVE POS 6	PO = 195.2	Q-INF = .305	P-INF = .0043	RE = .0248	TO = 1676.			
P	5.9900-01	4.3640-01	2.9240-01	1.0580-01	2.6200-02	1.1000-02	2.5600-02	5.8000-03
CP	1.9487+00	1.4159+00	9.4398-01	3.3251-01	7.1666-02	2.1857-02	6.9700-02	4.8176-03
P/PO1	1.0599+00	7.7219-01	5.11739-01	1.8721-01	4.6360-02	1.9464-02	4.5298-02	1.0263-02
VALVE POS 7	PO = 195.0	Q-INF = .305	P-INF = .0043	RE = .0248	TO = 1677.			
P	6.0120-01	4.2600-01	1.8000-01	9.8600-02	2.4600-02	5.6000-03	2.2000-02	6.4000-03
CP	1.9575+00	1.3829+00	5.7615-01	3.0918-01	6.6491-02	4.1775-03	5.7965-02	6.8012-03
P/PO1	1.0647+00	7.5441-01	3.1877-01	1.7461-01	4.3565-02	9.9172-03	3.8960-02	1.1334-02
VALVE POS 8	PO = 194.9	Q-INF = .305	P-INF = .0043	RE = .0248	TO = 1678.			
P	6.0300-01	5.4040-01	2.2260-01	9.5400-02	3.7200-02	9.4000-03	2.0000-02	6.8000-03
CP	1.9646+00	1.7592+00	7.1629-01	2.9887-01	1.0789-01	1.6658-02	5.1443-02	8.1261-03
P/PO1	1.0685+00	9.3756-01	3.9444-01	1.6904-01	6.5917-02	1.6656-02	3.5439-02	1.2049-02
VALVE POS 9	PO = 194.8	Q-INF = .305	P-INF = .0043	RE = .0247	TO = 1678.			
P	6.0100-01	3.5840-01	2.1940-01	8.8540-02	3.2600-02	5.8000-03	1.8400-02	6.4000-03
CP	1.9590+00	1.1625+00	7.0615-01	2.7605-01	9.2844-02	4.8539-03	4.6223-02	6.8239-03
P/PO1	1.0655+00	6.3539-01	3.8896-01	1.5672-01	5.7795-02	1.0282-02	3.2620-02	1.1346-02
VALVE POS 10	PO = 194.8	Q-INF = .305	P-INF = .0043	RE = .0247	TO = 1678.			
P	5.9740-01	5.1400-01	2.1180-01	8.3400-02	2.2200-02	4.2000-03	1.7600-02	8.0000-03
CP	1.9477+00	1.6738+00	6.8137-01	2.5970-01	5.8717-02	-3.9578-04	4.3610-02	1.2084-02
P/PO1	1.0594+00	9.1147-01	3.7558-01	1.4789-01	3.9367-02	7.4478-03	3.1210-02	1.4186-02
VALVE POS 11	PO = 194.7	Q-INF = .304	P-INF = .0043	RE = .0247	TO = 1678.			
P	5.8200-01	3.9000-01	2.1260-01	7.7800-02	2.7800-02	8.0000-03	1.4400-02	7.8000-03
CP	1.8981+00	1.2672+00	6.8435-01	2.4144-01	7.7193-02	1.2097-02	3.3125-02	1.1440-02
P/PO1	1.0326+00	6.9193-01	3.7719-01	1.3803-01	4.9322-02	1.4193-02	2.5548-02	1.3639-02
VALVE POS 12	PO = 194.6	Q-INF = .304	P-INF = .0043	RE = .0247	TO = 1678.			
P	5.0520-01	3.8720-01	2.1460-01	6.1800-02	4.0000-03	1.5000-02	1.3600-02	5.4000-03
CP	1.6466+00	1.2587+00	6.9127-01	1.8897-01	-1.0396-03	3.5121-02	3.0519-02	3.5627-03
P/PO1	8.9676-01	6.8730-01	3.8093-01	1.0210-01	1.1212-02	2.6626-02	2.4141-02	9.5853-03

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RUN	GROUP	PROJECT NO	MACH NO	CONFIGURATION	S-ALPHA	S-ROLL	PST	ALPHA
1.	7.	304244	10.03	6	14.52	.00	-.00	59.52

VALVE POS	PO	Q-IMF	Q-IMF	P-IMF	RE	RE	TO	TO
P	1.1680-01	4.8840-01	3.2000-03	2.0200-01	2.3200-02	8.4000-03	1.0000-02	9.6000-03
CP	3.6329-01	1.5237+00	-3.6824-03	6.4902-01	6.1982-02	1.3390-02	1.8643-02	1.7330-02
P/P01	2.0707-01	8.3040-01	5.6731-03	3.5811-01	4.1130-02	1.4892-02	1.7728-02	1.7019-02
VALVE POS	3	PO = 195.1	Q-IMF = .305	P-IMF = .0043	RE = .0247	TO = 1678.		
P	3.2320-01	4.8320-01	3.6320-01	1.9180-01	2.9400-02	1.2400-02	1.2600-02	1.4000-02
CP	1.0453+00	1.5699+00	1.1765+00	6.1458-01	8.2192-02	2.6462-02	2.7118-02	3.1707-02
P/P01	5.7213-01	8.5536-01	6.4293-01	3.3932-01	5.2044-02	2.1950-02	2.2304-02	2.4763-02
VALVE POS	4	PO = 195.3	Q-IMF = .305	P-IMF = .0043	RE = .0249	TO = 1674.		
P	5.0900-01	4.7880-01	3.5680-01	1.6800-01	3.3000-02	7.6000-03	7.2000-03	1.0800-02
CP	1.6526+00	1.5537+00	1.1542+00	5.3596-01	9.3877-02	1.0699-02	9.3895-03	2.1178-02
P/P01	9.0005-01	8.4665-01	6.3092-01	2.9707-01	5.8353-02	1.3439-02	1.2732-02	1.9097-02
VALVE POS	5	PO = 195.4	Q-IMF = .306	P-IMF = .0043	RE = .0250	TO = 1672.		
P	5.7280-01	4.8040-01	3.5160-01	1.1600-01	2.9800-02	1.0000-02	2.7800-02	8.0000-03
CP	1.8598+00	1.5575+00	1.1355+00	3.6533-01	8.3308-02	1.8528-02	7.6764-02	1.1985-02
P/P01	1.0119+00	8.4871-01	6.2081-01	2.0493-01	5.2647-02	1.7667-02	4.9113-02	1.4133-02
VALVE POS	6	PO = 195.6	Q-IMF = .306	P-IMF = .0043	RE = .0250	TO = 1670.		
P	5.8440-01	4.8160-01	3.0260-01	9.3200-02	2.6400-02	1.0600-02	2.1400-02	5.6000-03
CP	1.8960+00	1.5600+00	9.7491-01	2.9045-01	7.2104-02	2.0460-02	5.5761-02	4.1164-03
P/P01	1.0315+00	8.5005-01	5.3411-01	1.6450-01	4.6598-02	1.8710-02	3.7772-02	9.8844-03
VALVE POS	7	PO = 195.7	Q-IMF = .306	P-IMF = .0043	RE = .0251	TO = 1670.		
P	5.9400-01	4.7120-01	2.3380-01	8.9600-02	2.7400-02	3.4000-03	1.8200-02	6.6000-03
CP	1.9259+00	1.5248+00	7.4945-01	2.7846-01	7.5306-02	3.4496-03	4.5257-02	7.3690-03
P/P01	1.0477+00	8.3108-01	4.1236-01	1.5803-01	4.8327-02	9.5242-03	3.2100-02	1.1641-02
VALVE POS	8	PO = 195.8	Q-IMF = .306	P-IMF = .0043	RE = .0251	TO = 1669.		
P	5.9960-01	5.3040-01	2.5260-01	8.3000-02	3.0400-02	9.0000-03	1.6400-02	6.6000-03
CP	1.9431+00	1.7172+00	8.1037-01	2.5675-01	8.5047-02	1.5191-02	3.9347-02	7.3565-03
P/P01	1.0569+00	9.3495-01	4.4526-01	1.4631-01	5.3587-02	1.5864-02	2.8990-02	1.1634-02
VALVE POS	9	PO = 196.0	Q-IMF = .307	P-IMF = .0043	RE = .0251	TO = 1669.		
P	6.0300-01	3.5240-01	2.4700-01	8.0600-02	2.7400-02	5.8000-03	1.5800-02	6.8000-03
CP	1.9527+00	1.1353+00	7.9149-01	2.4872-01	7.5187-02	4.7310-03	3.7350-02	7.9929-03
P/P01	1.0621+00	6.2072-01	4.3507-01	1.4197-01	4.8262-02	1.0216-02	2.7830-02	1.1978-02
VALVE POS	10	PO = 196.0	Q-IMF = .307	P-IMF = .0044	RE = .0252	TO = 1668.		
P	6.0600-01	5.2720-01	2.3960-01	7.7200-02	1.8600-02	4.8000-03	1.5800-02	7.6000-03
CP	1.9618+00	1.7049+00	7.6709-01	2.3754-01	4.6462-02	1.4640-03	3.7332-02	1.0594-02
P/P01	1.0671+00	9.2831-01	4.2189-01	1.3594-01	3.2751-02	8.4520-03	2.7821-02	1.3382-02
VALVE POS	11	PO = 196.2	Q-IMF = .307	P-IMF = .0044	RE = .0252	TO = 1667.		
P	6.0080-01	3.7640-01	2.3880-01	7.0800-02	2.8000-02	8.8000-03	1.2600-02	7.2000-03
CP	1.9432+00	1.2121+00	7.6383-01	2.1648-01	7.7038-02	1.4483-02	2.6864-02	9.2704-03
P/P01	1.0570+00	6.6223-01	4.2014-01	1.2456-01	4.9262-02	1.5482-02	2.2168-02	1.2667-02
VALVE POS	12	PO = 196.2	Q-IMF = .307	P-IMF = .0044	RE = .0252	TO = 1666.		
P	5.5080-01	3.7640-01	2.3840-01	5.5200-02	3.8000-03	1.3600-02	1.1600-02	5.2000-03
CP	1.7797+00	1.2117+00	7.6227-01	1.6560-01	-1.8111-03	9.0107-02	2.3593-02	2.7486-03
P/P01	9.6874-01	6.6201-01	4.1930-01	9.7089-02	6.6834-03	2.3920-02	2.8402-02	9.1457-03

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RUN	GROUP	PROJECT NO	MACH NO	CONFIGURATION	S-ALPHA	S-ROLL	PSI	ALPHA
1.	8.	304244	10.04	4	-15.00	.00	-.00	.00
VALVE POS 2	PO = 202.9	Q-INF = .317	P-INF = .0045	RE = .0262	TO = 1660.			
P	6.3100-01	4.8400-02	2.8000-03	2.1620-01	3.9800-02	2.2040-01	2.2220-01	.0000+00
CP	1.9741+00	1.3833-01	-5.3588-03	6.6707-01	1.1123-01	6.8031-01	6.8598-01	.0000+00
P/PO1	1.0737+00	8.2360-02	4.7647-03	3.6790-01	6.7726-02	3.7505-01	3.7811-01	.0000+00
VALVE POS 3	PO = 202.8	Q-INF = .317	P-INF = .0045	RE = .0262	TO = 1661.			
P	4.6160-01	2.8800-02	2.1720-01	2.1640-01	2.1200-02	2.1960-01	1.9920-01	.0000+00
CP	1.4408+00	7.6598-02	6.7045-01	6.6792-01	5.2642-02	6.7801-01	6.1371-01	.0000+00
P/PO1	7.8574-01	4.9024-02	3.6972-01	3.6836-01	3.6087-02	3.7380-01	3.4487-01	.0000+00
VALVE POS 4	PO = 202.8	Q-INF = .317	P-INF = .0045	RE = .0262	TO = 1661.			
P	2.3580-01	2.3200-02	2.1680-01	2.1560-01	1.8400-02	2.1740-01	5.0600-02	.0000+00
CP	7.2925-01	5.8964-02	6.6935-01	6.6537-01	4.3830-02	6.7124-01	1.4535-01	.0000+00
P/PO1	4.0148-01	3.9501-02	3.6913-01	3.6708-01	3.1328-02	3.7015-01	8.6153-02	.0000+00
VALVE POS 5	PO = 202.7	Q-INF = .317	P-INF = .0045	RE = .0262	TO = 1662.			
P	1.9000-01	1.4000-02	2.1700-01	4.6940-01	2.0600-02	1.9320-01	4.8380-01	.0000+00
CP	5.8505-01	2.9972-02	6.7020-01	1.4662+00	5.0788-02	5.9514-01	1.5117+00	.0000+00
P/PO1	3.2360-01	2.3844-02	3.6959-01	7.9947-01	3.5085-02	3.2905-01	8.2399-01	.0000+00
VALVE POS 6	PO = 202.7	Q-INF = .317	P-INF = .0045	RE = .0262	TO = 1662.			
P	1.9340-01	1.6400-02	1.9040-01	1.9760-01	1.2200-02	3.7400-02	2.4200-01	.0000+00
CP	5.9592-01	3.7554-02	5.8646-01	6.0917-01	2.4304-02	1.0380-01	7.4923-01	.0000+00
P/PO1	3.2947-01	2.7939-02	3.2436-01	3.3663-01	2.0784-02	6.3714-02	4.1227-01	.0000+00
VALVE POS 7	PO = 202.7	Q-INF = .317	P-INF = .0045	RE = .0262	TO = 1662.			
P	2.0480-01	1.1600-02	5.5800-02	2.0720-01	1.4600-02	1.6200-02	1.9100-01	.0000+00
CP	6.3188-01	2.2412-02	1.6185-01	6.3945-01	3.1875-02	3.6923-02	5.8835-01	.0000+00
P/PO1	3.4889-01	1.9761-02	9.5060-02	3.5298-01	2.4872-02	2.7598-02	3.2538-01	.0000+00
VALVE POS 8	PO = 202.7	Q-INF = .317	P-INF = .0045	RE = .0262	TO = 1662.			
P	1.9840-01	1.9280-01	2.8200-02	2.0340-01	1.9340-01	1.1000-02	1.9220-01	.0000+00
CP	6.1154-01	5.9388-01	7.4797-02	6.2731-01	5.9577-01	2.0511-02	5.9199-01	.0000+00
P/PO1	3.3791-01	3.2837-01	4.8029-02	3.4642-01	3.2939-01	1.8735-02	3.2735-01	.0000+00
VALVE POS 9	PO = 202.6	Q-INF = .317	P-INF = .0045	RE = .0262	TO = 1662.			
P	2.0540-01	1.2880-01	1.9000-02	2.0840-01	2.0720-01	9.4000-03	2.1240-01	.0000+00
CP	6.3393-01	3.9223-01	4.5770-02	6.4340-01	6.3961-01	1.5479-02	6.5602-01	.0000+00
P/PO1	3.5000-01	2.1947-01	3.2376-02	3.5511-01	3.5307-01	1.6017-02	3.6193-01	.0000+00
VALVE POS 10	PO = 202.6	Q-INF = .317	P-INF = .0045	RE = .0262	TO = 1662.			
P	2.0500-01	2.0320-01	1.4400-02	2.0720-01	1.8880-01	8.2000-03	2.1220-01	.0000+00
CP	6.3283-01	6.2715-01	3.1266-02	6.3977-01	5.8170-01	1.1698-02	6.5555-01	.0000+00
P/PO1	3.4940-01	3.4633-01	2.4543-02	3.5315-01	3.2179-01	1.3976-02	3.6167-01	.0000+00
VALVE POS 11	PO = 202.5	Q-INF = .317	P-INF = .0045	RE = .0261	TO = 1662.			
P	2.0960-01	1.9080-01	1.3600-02	2.1140-01	1.7020-01	9.4000-03	2.1920-01	.0000+00
CP	6.4750-01	5.8815-01	2.9383-02	6.5319-01	5.2312-01	1.5493-02	6.7781-01	.0000+00
P/PO1	3.5733-01	3.2528-01	2.3526-02	3.6040-01	2.9018-01	1.6025-02	3.7369-01	.0000+00
VALVE POS 12	PO = 202.4	Q-INF = .317	P-INF = .0045	RE = .0261	TO = 1662.			
P	1.8960-01	2.1240-01	1.5400-02	1.9180-01	3.6000-03	2.1920-01	2.2400-01	.0000+00
CP	5.8465-01	6.5867-01	3.4458-02	5.9160-01	-2.8118-03	6.7814-01	6.9330-01	.0000+00
P/PO1	3.2339-01	3.8228-01	2.6267-02	3.2714-01	6.1402-03	2.7387-01	3.8206-01	.0000+00

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RUN GROUP PROJECT NO MACH NO CONFIGURATION S-ALPHA S-ROLL PSI ALPHA  
1. 9. 304244 10.04 -12.01 .00 -.00 2.99

VALVE POS	P	PO	Q-IMF	Q-IMF	Q-IMF	P-IMF	RE	RE	TO
VALVE POS 2	P	6.3360-01	4.3600-02	3.0000-03	2.2800-01	3.8600-02	1.9560-01	1.9140-01	1.8960-01
CP		1.9891+00	1.2367-01	-4.6917-03	7.0669-01	1.0788-01	6.0423-01	5.9098-01	5.8528-01
P/P01		1.0818+00	7.4443-02	5.1222-03	3.8929-01	6.5900-02	3.3397-01	3.2680-01	3.2373-01
VALVE POS 3	P	4.9480-01	2.6400-02	2.3980-01	2.2780-01	2.1600-02	1.9580-01	1.6960-01	1.7020-01
CP		1.5505+00	6.9301-02	7.4412-01	7.0617-01	5.4122-02	6.0498-01	5.2213-01	5.2403-01
P/P01		8.4496-01	4.5083-02	4.0950-01	3.8901-01	3.6886-02	3.3437-01	2.8962-01	2.9065-01
VALVE POS 4	P	2.6860-01	2.1200-02	2.3940-01	2.2720-01	1.7800-02	1.9360-01	4.4400-02	4.3000-02
CP		8.3540-01	5.2873-02	7.4304-01	7.0445-01	4.2119-02	5.9817-01	1.2625-01	1.2183-01
P/P01		4.5880-01	3.6212-02	4.0892-01	3.8808-01	3.0409-02	3.3069-01	7.5840-02	7.3448-02
VALVE POS 5	P	2.2580-01	1.5600-02	2.4020-01	1.9960-01	1.8600-02	1.7040-01	4.5400-01	2.0800-02
CP		7.0019-01	3.5172-02	7.4575-01	1.4753+00	4.4664-02	5.2492-01	1.4222+00	5.1624-02
P/P01		3.8578-01	2.6653-02	4.1038-01	8.0437-01	3.1778-02	2.9113-01	7.7567-01	3.5537-02
VALVE POS 6	P	2.3620-01	1.6400-02	2.1380-01	1.9960-01	1.2000-02	3.4200-02	2.1320-01	1.3000-02
CP		7.3310-01	3.7703-02	6.6223-01	6.1730-01	2.3783-02	9.4018-02	6.6033-01	2.6946-02
P/P01		4.0355-01	2.8020-02	3.6528-01	3.4102-01	2.0502-02	5.8431-02	3.6426-01	2.2211-02
VALVE POS 7	P	2.4680-01	1.3600-02	6.0600-02	2.1240-01	1.3800-02	1.3600-02	1.6460-01	9.8000-03
CP		7.6670-01	2.8848-02	1.7756-01	6.5786-01	2.9481-02	2.8848-02	5.0662-01	1.6823-02
P/P01		4.2169-01	2.3238-02	1.0354-01	3.6292-01	2.3579-02	2.3238-02	2.8124-01	1.6745-02
VALVE POS 8	P	2.4140-01	2.3640-01	3.1600-02	2.0960-02	2.0960-01	9.6080-03	1.6380-01	8.4000-03
CP		7.4962-01	7.3380-01	8.5801-02	6.4900-01	5.7559-01	1.6192-02	5.0489-01	1.2395-02
P/P01		4.1247-01	4.0392-01	5.3993-02	3.5813-01	3.1849-01	1.6403-02	2.7988-01	1.4353-02
VALVE POS 9	P	2.4260-01	1.4760-01	2.1800-02	2.1020-01	1.9600-01	7.4000-03	1.7900-01	7.6000-03
CP		7.5353-01	4.5290-01	5.4804-02	6.5100-01	6.0606-01	9.2350-03	5.2227-01	9.8679-03
P/P01		4.1459-01	2.5224-01	3.7255-02	3.5922-01	3.3495-01	1.2646-02	3.0590-01	1.2988-02
VALVE POS 10	P	2.4340-01	2.3800-01	1.7400-02	2.1040-01	1.6920-01	6.4000-03	1.8240-01	1.7820-01
CP		7.5625-01	7.3916-01	4.0894-02	6.5179-01	5.2138-01	6.0753-03	5.6317-01	5.4981-01
P/P01		4.1605-01	4.0682-01	2.9742-02	3.5944-01	2.8922-01	1.0940-02	3.1178-01	3.0460-01
VALVE POS 11	P	2.3860-01	2.1480-01	1.6000-02	2.0640-01	1.4340-01	7.6000-03	1.8160-01	1.5840-01
CP		7.4106-01	6.6572-01	3.6462-02	6.3913-01	4.3972-01	9.8737-03	5.6083-01	4.8720-01
P/P01		4.0785-01	3.6717-01	2.7349-02	3.5281-01	2.4512-01	1.2991-02	3.1042-01	2.7076-01
VALVE POS 12	P	2.1900-01	2.3720-01	1.6800-02	1.9880-01	3.6000-03	1.8620-01	1.9060-01	4.2600-02
CP		6.7918-01	7.3681-01	3.9007-02	9.8990-01	-2.7848-03	5.7534-01	5.8927-01	1.2069-01
P/P01		3.7444-01	4.0555-01	2.8724-02	3.2622-01	6.1551-01	2.1634-01	3.2588-01	7.2833-02

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RUN	GROUP	PROJECT NO	MACH NO	CONFIGURATION	S-ALPHA	S-ROLL	PSI	ALPHA
1.	10.	304244	10.04		-10.06	.00	-.00	4.94
VALVE POS 2 PO = 201.9 Q-IMF = .316 P-IMF = .0045 RE = .0261 TO = 1660.								
P	6.2880-01	5.0400-02	2.6000-03	2.3640-01	3.9000-02	1.7880-01	1.7160-01	.0000+00
CP	1.9768+00	1.4540-01	-5.9503-03	7.3432-01	1.0930-01	5.5195-01	5.2915-01	.0000+00
P/PO1	1.0752+00	0.6179-02	4.4457-03	4.0422-01	6.6686-02	3.0373-01	2.9342-01	.0000+00
VALVE POS 3 PO = 201.8 Q-IMF = .316 P-IMF = .0045 RE = .0261 TO = 1660.								
P	5.1320-01	3.0400-02	2.5360-01	2.3460-01	2.1600-02	1.7880-01	1.5020-01	.0000+00
CP	1.6111+00	0.2095-02	7.8898-01	7.2944-01	5.4225-02	5.3208-01	4.6191-01	.0000+00
P/PO1	0.7773-01	5.1993-02	4.3373-01	4.0158-01	3.6943-02	3.0380-01	2.5484-01	.0000+00
VALVE POS 4 PO = 201.8 Q-IMF = .316 P-IMF = .0045 RE = .0261 TO = 1659.								
P	2.9040-01	2.4400-02	2.5280-01	2.3360-01	1.7200-02	1.7760-01	4.1000-02	.0000+00
CP	9.0567-01	6.3105-02	7.8657-01	7.2575-01	4.0299-02	5.4837-01	1.1251-01	.0000+00
P/PO1	4.9675-01	4.1738-02	4.3244-01	3.9959-01	2.9422-02	3.0380-01	7.0134-02	.0000+00
VALVE POS 5 PO = 201.7 Q-IMF = .316 P-IMF = .0045 RE = .0261 TO = 1658.								
P	2.5080-01	1.9200-02	2.5320-01	4.6660-01	1.7000-02	1.5560-01	4.2860-01	.0000+00
CP	7.8055-01	4.6658-02	7.8816-01	1.4644+00	3.9887-02	4.7888-01	1.3440+00	.0000+00
P/PO1	4.2919-01	3.2856-02	4.3329-01	7.9848-01	2.9092-02	2.6627-01	7.3345-01	.0000+00
VALVE POS 6 PO = 201.6 Q-IMF = .316 P-IMF = .0045 RE = .0266 TO = 1642.								
P	2.6300-01	1.9200-02	2.2580-01	1.9820-01	1.1800-02	3.1000-02	1.9380-01	.0000+00
CP	8.1846-01	4.6604-02	7.0069-01	6.1331-01	2.3175-02	8.3962-02	5.9938-01	.0000+00
P/PO1	4.4971-01	3.2831-02	3.8610-01	3.3891-01	2.0177-02	5.3008-02	3.3138-01	.0000+00
VALVE POS 7 PO = 201.6 Q-IMF = .316 P-IMF = .0045 RE = .0266 TO = 1642.								
P	2.7320-01	1.6800-02	6.2400-02	2.1100-01	1.3200-02	1.3000-02	1.4520-01	.0000+00
CP	8.5055-01	3.8992-02	1.8333-01	6.5367-01	2.7598-02	2.6965-02	4.4540-01	.0000+00
P/PO1	4.6704-01	2.8720-02	1.0667-01	3.6071-01	2.2566-02	2.2224-02	2.4822-01	.0000+00
VALVE POS 8 PO = 201.7 Q-IMF = .316 P-IMF = .0045 RE = .0265 TO = 1646.								
P	2.6140-01	2.5720-01	3.2400-02	2.0620-01	1.7280-01	8.8000-03	1.3820-01	.0000+00
CP	8.1308-01	7.9979-01	8.8355-02	6.3839-01	5.3269-01	1.3667-02	4.2319-01	.0000+00
P/PO1	4.4679-01	4.3961-01	5.5379-02	3.5244-01	2.9535-01	1.3041-02	2.3621-01	.0000+00
VALVE POS 9 PO = 201.8 Q-IMF = .316 P-IMF = .0045 RE = .0263 TO = 1652.								
P	2.6480-01	1.6000-01	2.2200-02	2.0820-01	1.8520-01	6.8000-03	1.5560-01	.0000+00
CP	8.2407-01	4.9232-01	5.6094-02	6.4490-01	5.7209-01	7.3435-03	4.7839-01	.0000+00
P/PO1	4.5271-01	2.7354-01	3.7954-02	3.5594-01	3.1662-01	1.1625-02	2.6602-01	.0000+00
VALVE POS 10 PO = 201.9 Q-IMF = .316 P-IMF = .0045 RE = .0262 TO = 1659.								
P	2.6400-01	2.5720-01	1.8000-02	2.0700-01	1.4920-01	5.6000-03	1.5960-01	.0000+00
CP	8.2144-01	7.9992-01	4.2792-02	6.4102-01	4.5807-01	3.5427-03	4.9099-01	.0000+00
P/PO1	4.5127-01	4.3964-01	3.0768-02	3.5383-01	2.5503-01	9.5723-03	2.7281-01	.0000+00
VALVE POS 11 PO = 202.0 Q-IMF = .316 P-IMF = .0045 RE = .0261 TO = 1663.								
P	2.6140-01	2.3400-01	1.6400-02	2.0440-01	1.2760-01	7.4000-03	1.6060-01	.0000+00
CP	8.1310-01	7.2638-01	3.7720-02	6.3270-01	3.8965-01	9.2370-03	4.9408-01	.0000+00
P/PO1	4.4675-01	3.9992-01	2.8029-02	3.4933-01	2.1808-01	1.2647-02	2.7448-01	.0000+00
VALVE POS 12 PO = 202.1 Q-IMF = .316 P-IMF = .0045 RE = .0261 TO = 1663.								
P	2.3880-01	2.5560-01	1.6600-02	1.8940-01	3.2000-03	1.6580-01	1.6940-01	.0000+00
CP	7.4121-01	7.9435-01	3.8328-02	5.8494-01	-5.0599-03	5.1029-01	5.2168-01	.0000+00
P/PO1	4.0793-01	4.3663-01	2.8357-02	3.2354-01	5.4647-03	2.8323-01	2.8938-01	.0000+00

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RUN GROUP PROJECT NO MACH NO CONFIGURATION S-ALPHA S-ROLL PSI ALPHA  
1. 11. 304244 10.04 4 -5.04 .09 -.00 9.96

VALVE POS	PO	Q-IMF	Q-IMF	P-IMF	RE	TO	TO
P	6.1180-01	6.4400-02	2.8000-03	2.5080-01	3.8400-02	1.3740-01	1.2220-01
CP	1.9225+00	1.8968-01	-5.3189-03	7.7974-01	1.0739-01	4.2077-01	3.7263-01
P/PO1	1.0459+00	1.1009-01	4.7865-03	4.2874-01	6.5644-02	2.3488-01	2.0890-01
VALVE POS 3	PO = 201.9	Q-IMF = .316	Q-IMF = .316	P-IMF = .0045	RE = .0260	TO = 1663.	
P	5.4960-01	4.2000-02	2.9500-01	2.5100-01	2.2400-02	1.3840-01	1.0560-01
CP	1.7259+00	1.1879-01	9.1980-01	7.8050-01	5.6737-02	4.2400-01	3.2013-01
P/PO1	9.3968-01	7.1810-02	5.0438-01	4.2915-01	3.8298-02	2.3663-01	1.8053-01
VALVE POS 4	PO = 201.9	Q-IMF = .316	Q-IMF = .316	P-IMF = .0045	RE = .0261	TO = 1662.	
P	3.4480-01	3.6400-02	2.9140-01	2.4740-01	1.7600-02	1.3680-01	3.3000-02
CP	1.0775+00	1.0106-01	9.0841-01	7.6910-01	4.1540-02	4.1893-01	9.0297-02
P/PO1	5.8952-01	6.2235-02	4.9822-01	4.2299-01	3.0092-02	2.3389-01	5.6422-02
VALVE POS 5	PO = 201.9	Q-IMF = .316	Q-IMF = .316	P-IMF = .0045	RE = .0260	TO = 1663.	
P	3.1320-01	3.2000-02	2.9020-01	4.5380-01	1.6400-02	1.1860-01	3.6980-01
CP	9.7775-01	8.7164-02	9.0491-01	1.4230+00	3.7758-02	3.6143-01	1.1570+00
P/PO1	5.3567-01	5.4730-02	4.9633-01	7.7614-01	2.8049-02	2.0284-01	6.3247-01
VALVE POS 6	PO = 202.0	Q-IMF = .316	Q-IMF = .316	P-IMF = .0045	RE = .0260	TO = 1664.	
P	3.2480-01	3.0000-02	2.5720-01	1.9220-01	1.2000-02	2.2600-02	1.5460-01
CP	1.0141+00	8.0793-02	8.0007-01	5.9429-01	2.3808-02	5.7365-02	4.7526-01
P/PO1	5.5528-01	5.1288-02	4.3971-01	3.2859-01	2.0515-02	3.8637-02	2.6431-01
VALVE POS 7	PO = 202.0	Q-IMF = .316	Q-IMF = .316	P-IMF = .0045	RE = .0260	TO = 1665.	
P	3.3660-01	2.7600-02	7.2400-02	1.9940-01	1.3200-02	1.0200-02	1.0720-01
CP	1.0515+00	7.3202-02	2.1504-01	6.1714-01	2.7610-02	1.8112-02	3.2522-01
P/PO1	5.7550-01	4.7189-02	1.2379-01	3.4092-01	2.2569-02	1.7439-02	1.8329-01
VALVE POS 8	PO = 202.0	Q-IMF = .316	Q-IMF = .316	P-IMF = .0045	RE = .0260	TO = 1665.	
P	3.3660-01	3.2320-01	3.9600-02	2.0420-01	1.5880-01	8.6000-03	1.0240-01
CP	1.0513+00	1.0089+00	1.1117-01	6.3851-01	4.8847-01	1.3040-02	3.0995-01
P/PO1	5.7536-01	5.5246-01	6.7690-02	3.5247-01	2.7144-01	1.4700-02	1.7504-01
VALVE POS 9	PO = 202.0	Q-IMF = .316	Q-IMF = .316	P-IMF = .0045	RE = .0260	TO = 1665.	
P	3.3000-01	1.9920-01	2.9800-02	2.0020-01	1.5460-01	5.8000-03	1.0620-01
CP	1.0306+00	6.1651-01	8.0168-02	6.1967-01	4.7530-01	4.1809-03	3.2206-01
P/PO1	5.6422-01	3.4058-01	5.0931-02	3.4223-01	2.6433-01	9.9165-03	1.8158-01
VALVE POS 10	PO = 202.0	Q-IMF = .316	Q-IMF = .316	P-IMF = .0045	RE = .0260	TO = 1665.	
P	3.2480-01	3.0960-01	2.5400-02	1.9680-01	1.1280-01	4.6000-03	1.1020-01
CP	1.0142+00	9.6605-01	6.6237-02	6.0891-01	3.4293-01	3.8160-04	3.3472-01
P/PO1	5.5933-01	5.2934-01	4.3428-02	3.3648-01	1.9286-01	7.8648-03	1.8841-01
VALVE POS 11	PO = 202.0	Q-IMF = .316	Q-IMF = .316	P-IMF = .0045	RE = .0259	TO = 1667.	
P	3.2700-01	2.7840-01	2.4600-02	2.0060-01	9.6600-02	6.8000-03	1.1320-01
CP	1.0213+00	8.6742-01	6.3717-02	6.2103-01	2.9172-01	7.3508-03	3.4428-01
P/PO1	5.5918-01	4.7607-01	4.2061-02	3.4303-01	1.6519-01	1.1628-02	1.9357-01
VALVE POS 12	PO = 201.4	Q-IMF = .315	Q-IMF = .315	P-IMF = .0045	RE = .0258	TO = 1668.	
P	2.9080-01	2.9160-01	2.4800-02	1.8000-01	2.8000-03	1.1580-01	3.1400-02
CP	9.0922-01	9.1176-01	6.4566-02	5.5738-01	-5.2919-03	3.5353-01	3.5607-01
P/PO1	4.9864-01	5.0001-01	4.2523-02	3.0865-01	4.8012-03	1.9856-01	1.9994-01

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RUN	GROUP	PROJECT NO	MACH NO	CONFIGURATION	S-ALPHA	S-ROLL	PSI	ALPHA
1.	12.	304244	10.04	4	.01	.00	-.00	14.99
VALVE POS 2	PO = 200.9	Q-INF = .314	P-INF = .0045	RE = .0257	TO = 1669.			
P	5.8700-01	8.6000-02	2.6300-01	3.9800-02	9.9400-02	8.0600-02	7.3600-02	.0000+00
CP	1.8549+00	2.5965-01	-7.1784-03	8.2325-01	1.1255-01	3.0296-01	2.4246-01	.0000+00
P/P01	1.0093+00	1.4787-01	3.7828-03	4.5221-01	6.8434-02	1.7126-01	1.3859-01	.0000+00
VALVE POS 3	PO = 200.6	Q-INF = .314	P-INF = .0044	RE = .0257	TO = 1671.			
P	5.8160-01	6.0800-02	3.2520-01	2.5740-01	2.2800-02	9.9400-02	6.8200-02	.0000+00
CP	1.8403+00	1.7968-01	1.0227+00	8.0655-01	5.8516-02	3.0276-01	2.0328-01	.0000+00
P/P01	1.0014+00	1.0469-01	5.5993-01	4.4319-01	3.9257-02	1.7115-01	1.1743-01	.0000+00
VALVE POS 4	PO = 200.5	Q-INF = .313	P-INF = .0044	RE = .0256	TO = 1672.			
P	4.0520-01	5.4400-02	3.2380-01	2.5460-01	1.8600-02	9.6000-02	2.5000-02	.0000+00
CP	1.2789+00	1.5942-01	1.0191+00	7.9829-01	4.5172-02	2.9217-01	6.5596-02	.0000+00
P/P01	6.9824-01	9.3742-02	5.5797-01	4.3873-01	3.2052-02	1.6543-01	4.3080-02	.0000+00
VALVE POS 5	PO = 200.3	Q-INF = .313	P-INF = .0044	RE = .0256	TO = 1672.			
P	3.7720-01	5.0800-02	3.2240-01	4.3380-01	1.6600-02	8.5000-02	3.0880-01	.0000+00
CP	1.1907+00	1.4809-01	1.0157+00	1.3715+00	3.8841-02	2.5733-01	9.7221-01	.0000+00
P/P01	6.5063-01	8.7624-02	5.5610-01	7.4826-01	2.8633-02	1.4682-01	5.3264-01	.0000+00
VALVE POS 6	PO = 200.2	Q-INF = .313	P-INF = .0044	RE = .0256	TO = 1672.			
P	3.8800-01	4.8800-02	2.8520-01	1.8540-01	1.3200-02	1.8200-02	1.2100-01	.0000+00
CP	1.2258+00	1.4177-01	8.9727-01	5.7833-01	2.8001-02	4.3980-02	3.7251-01	.0000+00
P/P01	6.6958-01	8.4215-02	4.9218-01	3.1995-01	2.2780-02	3.1408-02	2.0881-01	.0000+00
VALVE POS 7	PO = 200.1	Q-INF = .313	P-INF = .0044	RE = .0255	TO = 1674.			
P	3.9360-01	4.5600-02	7.9600-02	1.9120-01	1.4000-02	9.0000-03	8.0400-02	.0000+00
CP	1.2445+00	1.3164-01	2.4037-01	5.9727-01	3.0587-02	1.4597-02	2.4293-01	.0000+00
P/P01	6.7968-01	7.8744-02	1.3746-01	3.3017-01	2.4176-02	1.5342-02	1.3884-01	.0000+00
VALVE POS 8	PO = 200.0	Q-INF = .313	P-INF = .0044	RE = .0255	TO = 1674.			
P	3.8980-01	3.7160-01	4.8200-02	1.8820-01	1.2340-01	7.6000-03	7.0800-02	.0000+00
CP	1.2330+00	1.1748+00	1.4003-01	5.8797-01	3.8064-01	1.0132-02	2.1234-01	.0000+00
P/P01	6.7345-01	6.4201-01	8.3275-02	3.2515-01	2.1320-01	1.3130-02	1.2232-01	.0000+00
VALVE POS 9	PO = 199.9	Q-INF = .312	P-INF = .0044	RE = .0255	TO = 1674.			
P	3.9440-01	2.3600-01	4.0400-02	1.8980-01	1.3380-01	5.6000-03	7.2400-02	.0000+00
CP	1.2483+00	7.4127-01	1.1514-01	5.9338-01	4.1412-01	3.7417-03	2.1757-01	.0000+00
P/P01	6.8173-01	4.0793-01	6.9833-02	3.2808-01	2.3128-01	9.6798-03	1.2315-01	.0000+00
VALVE POS 10	PO = 199.8	Q-INF = .312	P-INF = .0044	RE = .0255	TO = 1675.			
P	3.9120-01	3.6720-01	3.5200-02	1.8440-01	8.9200-02	4.4000-03	7.2000-02	.0000+00
CP	1.2382+00	1.1614+00	9.8504-02	5.7615-01	2.7138-01	-9.8328-05	2.1631-01	.0000+00
P/P01	6.7626-01	6.3477-01	6.0849-02	3.1877-01	1.5420-01	7.6062-03	1.2446-01	.0000+00
VALVE POS 11	PO = 199.8	Q-INF = .312	P-INF = .0044	RE = .0254	TO = 1676.			
P	3.8760-01	3.1640-01	3.4000-02	1.8440-01	6.6800-02	6.2000-03	7.2600-02	.0000+00
CP	1.2274+00	9.9931-01	9.4725-02	5.7649-01	1.9979-01	5.6755-03	2.1837-01	.0000+00
P/P01	6.7042-01	5.4726-01	5.8808-02	3.1895-01	1.1554-01	1.0724-02	1.2557-01	.0000+00
VALVE POS 12	PO = 199.6	Q-INF = .312	P-INF = .0044	RE = .0254	TO = 1675.			
P	3.4140-01	3.2440-01	3.3400-02	1.6460-01	2.6000-03	7.1200-02	2.2800-02	.0000+00
CP	1.0801+00	1.0256+00	9.2872-02	5.1340-01	-5.8508-03	2.1403-01	2.2493-01	.0000+00
P/P01	5.9089-01	5.6147-01	5.7808-02	2.8489-01	4.5000-03	1.2323-01	1.2912-01	.0000+00

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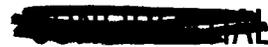
RUN 13. GROUP 304244 PROJECT NO 10.04 MACH NO 4.92 CONFIGURATION S-ALPHA 4.92 S-ROLL .00 PSI -.00 ALPHA 19.92

VALVE POS	P	CP	P/POI	PO	Q-IMF	Q-IMF	Q-IMF	Q-IMF	Q-IMF	P-IMF	P-IMF	P-IMF	RE	RE	RE	RE	TO	TO	TO
2	5.4820-01	1.0480-01	3.2269-01	1.8191-01	199.1	2.8000-03	2.8000-03	2.8000-03	2.8000-03	2.6460-01	3.7200-02	6.4800-02	.0044	.0253	.0253	.0253	1677.	1677.	1677.
3	5.9480-01	1.9019+00	1.0346+00	1.4263-01	198.7	3.4780-01	3.4780-01	3.4780-01	3.4780-01	2.5740-01	2.3800-02	6.5200-02	.0044	.0252	.0252	.0252	1679.	1679.	1679.
4	4.5620-01	1.4574+00	7.9463-01	1.3377-01	198.4	7.6800-02	3.4640-01	3.4640-01	3.4640-01	2.5480-01	2.0400-02	6.1400-02	.0044	.0252	.0252	.0252	1678.	1678.	1678.
5	4.2940-01	1.3725+00	7.4875-01	1.2624-01	198.2	7.2400-02	3.4620-01	3.4620-01	3.4620-01	4.0460-01	1.8200-02	5.0000-02	.0044	.0251	.0251	.0251	1679.	1679.	1679.
6	4.3280-01	1.3843+00	7.5511-01	1.1655-01	198.1	6.8000-02	2.9900-01	2.9900-01	2.9900-01	1.6980-01	1.4600-02	1.2800-02	.0044	.0251	.0251	.0251	1680.	1680.	1680.
7	4.4060-01	1.4102+00	7.6910-01	1.0473-01	198.0	6.0000-02	9.1000-02	9.1000-02	9.1000-02	1.7100-01	1.5400-02	7.2000-03	.0044	.0251	.0251	.0251	1680.	1680.	1680.
8	4.3860-01	1.4059+00	7.6624-01	1.1767-01	197.8	4.1080-01	3.9200-02	3.9200-02	3.9200-02	1.6640-01	9.3800-02	7.0000-03	.0044	.0251	.0251	.0251	1678.	1678.	1678.
9	4.3820-01	1.4051+00	7.6586-01	1.4140-01	197.7	2.6400-01	5.1200-02	5.1200-02	5.1200-02	1.6440-01	9.6600-02	5.0000-03	.0044	.0251	.0251	.0251	1677.	1677.	1677.
10	4.3840-01	1.4036+00	7.6558-01	1.1459-01	197.6	4.0920-01	4.7200-02	4.7200-02	4.7200-02	1.6220-01	6.6200-02	4.2000-03	.0044	.0252	.0252	.0252	1676.	1676.	1676.
11	4.3540-01	1.3915+00	7.5903-01	5.8156-01	198.2	3.3360-01	4.4800-02	4.4800-02	4.4800-02	1.5720-01	4.6200-02	5.6000-03	.0044	.0252	.0252	.0252	1676.	1676.	1676.
12	3.8940-01	1.2500+00	6.7723-01	6.0523-01	198.6	3.4800-01	4.4000-02	4.4000-02	4.4000-02	1.4600-01	3.6000-03	4.1600-02	.0044	.0253	.0253	.0253	1674.	1674.	1674.

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RUN	GROUP	PROJECT NO	MACH NO	CONFIGURATION	S-ALPHA	S-ROLL	PSI	ALPHA
1.	14.	304244	10.04	4	10.03	.00	-.00	25.03
VALVE POS 2	PO = 199.1	Q-INF = .311	P-INF = .0044	RE = .0255	TD = 1671.			
P	5.0980-01	1.1600-01	2.2000-03	2.6720-01	3.5000-02	5.1600-02	2.9600-02	.0000+00
CP	1.6237+00	3.5850-01	-7.1160-03	8.428-01	9.8263-02	1.1947-01	8.0271-02	7.4488-02
P/POI	8.8445-01	2.0125-01	3.8168-03	4.6356-01	6.0721-02	7.2172-02	5.1004-02	4.7883-02
VALVE POS 3	PO = 199.3	Q-INF = .312	P-INF = .0044	RE = .0255	TD = 1670.			
P	6.1020-01	9.8600-02	3.7040-01	2.5880-01	2.3800-02	3.6600-02	2.8800-02	.0000+00
CP	1.9637+00	3.0154-01	1.1743+00	8.1620-01	6.2180-02	1.0125-01	4.5388-02	6.4105-02
P/POI	1.0373+00	1.7049-01	6.4177-01	4.4841-01	4.1237-02	6.3414-02	4.2969-02	4.2276-02
VALVE POS 4	PO = 199.5	Q-INF = .312	P-INF = .0044	RE = .0255	TD = 1671.			
P	5.1520-01	1.0120-01	3.7000-01	2.1400-02	3.6000-02	1.2400-02	1.4000-02	.0000+00
CP	1.6374+00	3.1024-01	1.1719+00	8.0584-01	5.4418-02	1.0122-01	2.5566-02	3.0896-02
P/POI	8.9185-01	1.7518-01	6.4050-01	4.4281-01	3.7045-02	6.2319-02	2.1495-02	2.4235-02
VALVE POS 5	PO = 199.7	Q-INF = .312	P-INF = .0044	RE = .0255	TD = 1671.			
P	4.9200-01	9.9200-02	3.6800-01	3.7860-01	1.8800-02	2.6800-02	1.9960-01	.0000+00
CP	1.5615+00	3.0351-01	1.1644+00	1.1983+00	4.6024-02	7.1645-02	6.2505-01	1.7842-02
P/POI	8.5086-01	1.7155-01	6.3641-01	6.5474-01	3.2512-02	4.6348-02	3.4519-01	1.7294-02
VALVE POS 6	PO = 199.8	Q-INF = .312	P-INF = .0044	RE = .0256	TD = 1670.			
P	4.9160-01	8.7200-02	3.1020-01	1.6140-01	1.5800-02	9.8000-03	8.2600-02	6.8000-03
CP	1.5393+00	2.6492-01	9.7869-01	5.0242-01	3.6388-02	1.7183-02	2.5020-01	7.5808-03
P/POI	8.4968-01	1.5072-01	5.3615-01	2.7896-01	2.7309-02	1.6938-02	1.4277-01	1.1753-02
VALVE POS 7	PO = 200.0	Q-INF = .313	P-INF = .0044	RE = .0256	TD = 1670.			
P	4.9180-01	7.8800-02	9.9200-02	1.5700-01	1.6200-02	5.8000-03	4.9800-02	6.2000-03
CP	1.5588+00	2.3785-01	3.0310-01	4.8797-01	3.7630-02	4.3665-03	1.4510-01	5.6459-03
P/POI	8.4940-01	1.3610-01	1.7133-01	2.7116-01	2.7980-02	1.6017-02	8.6011-02	1.0708-02
VALVE POS 8	PO = 200.1	Q-INF = .313	P-INF = .0044	RE = .0256	TD = 1670.			
P	4.9300-01	4.5840-01	6.9000-02	1.5520-01	7.6400-02	6.8000-03	4.0800-02	5.6000-03
CP	1.5615+00	1.4509+00	2.0634-01	4.8185-01	2.3639-01	7.5492-03	1.1622-01	3.7139-03
P/POI	8.5085-01	7.9114-01	1.1909-01	2.6786-01	1.3531-01	1.1736-02	7.0416-02	9.6649-03
VALVE POS 9	PO = 200.2	Q-INF = .313	P-INF = .0044	RE = .0256	TD = 1670.			
P	4.9220-01	3.0000-01	6.1400-02	1.4880-01	7.5200-02	4.2000-03	3.5200-02	5.2000-03
CP	1.5582+00	9.4417-01	1.8190-01	4.6116-01	2.2604-01	-7.6707-04	9.8263-02	2.4274-03
P/POI	8.4906-01	5.1751-01	1.0592-01	2.5668-01	1.2972-01	7.2451-03	6.0721-02	6.9702-03
VALVE POS 10	PO = 200.3	Q-INF = .313	P-INF = .0044	RE = .0256	TD = 1670.			
P	4.9660-01	4.5560-01	6.2600-02	1.5300-01	5.3600-02	3.8000-03	3.1800-02	2.1000-02
CP	1.5718+00	1.4409+00	1.8574-01	4.7446-01	1.5700-01	-2.0478-03	8.7377-02	5.2864-02
P/POI	8.5644-01	7.8573-01	1.0790-01	2.6387-01	9.2439-02	6.5535-03	5.4843-02	3.6217-02
VALVE POS 11	PO = 200.4	Q-INF = .313	P-INF = .0044	RE = .0257	TD = 1670.			
P	4.8880-01	3.6880-01	5.8000-02	1.4620-01	4.2400-02	5.2000-03	2.8800-02	1.9000-02
CP	1.5462+00	1.1631+00	1.7096-01	4.5251-01	1.2116-01	-2.4154-03	7.7751-02	4.6467-02
P/POI	8.4258-01	6.3573-01	9.9979-02	2.5201-01	7.3088-02	8.9636-03	4.9645-02	3.2752-02
VALVE POS 12	PO = 200.4	Q-INF = .313	P-INF = .0044	RE = .0257	TD = 1669.			
P	4.1980-01	3.7480-01	5.3800-02	1.3120-01	3.6000-03	2.6800-02	2.8600-02	1.1000-02
CP	1.3254+00	1.1818+00	1.5750-01	4.0449-01	-2.6958-03	7.1338-02	7.7082-02	2.0918-02
P/POI	7.2340-01	6.4586-01	9.2709-02	2.2609-01	6.2036-03	4.48182-02	4.9284-02	1.8955-02





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RUN	GROUP	PROJECT NO	MACH NO	CONFIGURATION	S-ALPHA	S-ROLL	PSI	ALPHA
1.	15.	304244	10.04	4	14.49	.00	-.00	29.49
<p>VALVE POS 2 PO = 201.0 Q-INF = .314 P-INF = .0045 RE = .0258 TO = 1667.</p> <p>P 4.7280-01 1.2080-01 2.6000-03 2.6920-01 3.2400-02 2.7200-02 1.8600-02 1.8200-02 .0000+00</p> <p>CP 1.4899+00 3.7011-01 -5.9120-03 8.4221-01 8.8890-02 7.2347-02 4.9880-02 4.3716-02 .0000+00</p> <p>P/PO1 8.1223-01 2.0752-01 4.4666-03 4.6246-01 5.5660-02 4.6727-02 3.1953-02 3.1266-02 .0000+00</p>								
<p>VALVE POS 3 PO = 201.2 Q-INF = .315 P-INF = .0045 RE = .0258 TO = 1667.</p> <p>P 6.2020-01 1.2040-01 3.9040-01 2.6700-01 2.4000-02 7.2200-02 1.7800-02 1.8800-02 .0000+00</p> <p>CP 1.9569+00 3.6847-01 1.2266+00 8.1850-01 6.2093-02 7.2263-02 4.2389-02 4.5567-02 .0000+00</p> <p>P/PO1 1.0644+00 2.0664-01 6.7002-01 4.4966-01 4.1190-02 4.6882-02 3.0349-02 3.2265-02 .0000+00</p>								
<p>VALVE POS 4 PO = 201.4 Q-INF = .315 P-INF = .0045 RE = .0259 TO = 1666.</p> <p>P 5.6600-01 1.3440-01 3.8660-01 2.5400-01 2.2000-02 2.5600-02 9.8000-03 1.2000-02 .0000+00</p> <p>EP 1.7832+00 4.1262-01 1.2135+00 7.9242-01 5.5680-02 6.677-02 1.6938-02 2.3924-02 .0000+00</p> <p>P/PO1 9.7061-01 2.3048-01 6.6296-01 4.3557-01 3.7727-02 4.3557-02 1.6806-02 2.0578-02 .0000+00</p>								
<p>VALVE POS 5 PO = 201.4 Q-INF = .315 P-INF = .0045 RE = .0259 TO = 1666.</p> <p>P 5.4500-01 1.2800-01 3.7700-01 3.5180-01 2.0400-02 1.9000-02 1.6020-01 8.4000-03 .0000+00</p> <p>CP 1.7161+00 3.9219-01 1.1827+00 1.1027+00 5.0583-02 4.6134-02 4.9442-01 1.2486-02 .0000+00</p> <p>P/PO1 9.3437-01 2.1945-01 6.4635-01 6.0314-01 3.4975-02 3.2574-02 2.7465-01 1.4401-02 .0000+00</p>								
<p>VALVE POS 6 PO = 201.5 Q-INF = .315 P-INF = .0045 RE = .0259 TO = 1665.</p> <p>P 5.4500-01 1.1880-01 3.1180-01 1.5800-01 1.7600-02 9.6000-03 6.3000-02 5.6000+00 .0000+00</p> <p>CP 1.7151+00 3.6277-01 9.7516-01 4.8715-01 4.1662-02 1.8278-02 1.8572-01 3.5860-03 .0000+00</p> <p>P/PO1 9.3384-01 2.0356-01 5.3426-01 2.7073-01 3.0157-02 1.4449-02 1.0795-01 9.5953-03 .0000+00</p>								
<p>VALVE POS 7 PO = 201.6 Q-INF = .315 P-INF = .0045 RE = .0259 TO = 1666.</p> <p>P 5.3860-01 1.1120-01 1.0820-01 1.4720-01 1.7400-02 5.2000-03 3.9200-02 5.2000+00 .0000+00</p> <p>CP 1.6945+00 3.3860-01 3.0370-01 4.5281-01 4.1014-02 2.3142-03 1.1018-01 2.3142-03 .0000+00</p> <p>P/PO1 9.2273-01 1.9051-01 1.7166-01 2.5218-01 2.9810-02 8.9086-03 6.7157-02 8.9086-03 .0000+00</p>								
<p>VALVE POS 8 PO = 201.6 Q-INF = .315 P-INF = .0045 RE = .0259 TO = 1666.</p> <p>P 5.3340-01 4.9600-01 7.4200-02 1.4260-01 6.4800-02 6.8000-03 3.3200-02 5.0000+00 .0000+00</p> <p>CP 1.6776+00 1.5590+00 2.2116-01 4.3811-01 1.9135-01 7.3951-03 9.1119-02 1.6760-03 .0000+00</p> <p>P/PO1 9.1360-01 8.4954-01 1.2709-01 2.4424-01 1.1099-01 1.1647-02 5.6864-02 8.5639-03 .0000+00</p>								
<p>VALVE POS 9 PO = 201.8 Q-INF = .316 P-INF = .0045 RE = .0260 TO = 1665.</p> <p>P 5.3640-01 3.2440-01 7.4800-02 1.4300-01 6.5400-02 4.8000-03 2.9200-02 5.2000-03 .0000+00</p> <p>CP 1.6858+00 1.0139+00 2.2287-01 4.3901-01 1.9308-01 1.0294-03 7.8357-02 2.2970-03 .0000+00</p> <p>P/PO1 9.1800-01 5.5518-01 1.2801-01 2.4473-01 1.1193-01 8.2147-03 4.9973-02 8.8993-03 .0000+00</p>								
<p>VALVE POS 10 PO = 201.8 Q-INF = .316 P-INF = .0045 RE = .0260 TO = 1665.</p> <p>P 5.3300-01 4.7280-01 7.6200-02 1.4000-01 4.3000-02 3.8000-03 2.5000-02 1.4600-02 .0000+00</p> <p>CP 1.6746+00 1.4838+00 2.2725-01 4.2939-01 1.2206-01 -2.1427-03 6.5028-02 3.2076-02 .0000+00</p> <p>P/PO1 9.1196-01 8.0896-01 1.3038-01 2.3954-01 7.3573-02 6.5018-03 4.2775-02 2.4980-02 .0000+00</p>								
<p>VALVE POS 11 PO = 201.9 Q-INF = .316 P-INF = .0045 RE = .0260 TO = 1664.</p> <p>P 5.1860-01 3.9840-01 7.2000-02 1.4140-01 3.7800-02 6.0000-03 2.2600-02 1.3800-02 .0000+00</p> <p>CP 1.6284+00 1.2477+00 2.1387-01 4.3368-01 1.0554-01 4.8216-03 5.7400-02 2.9527-02 .0000+00</p> <p>P/PO1 8.8703-01 6.8144-01 1.2315-01 2.4186-01 6.4655-02 1.0263-02 3.8656-02 2.3604-02 .0000+00</p>								
<p>VALVE POS 12 PO = 202.0 Q-INF = .316 P-INF = .0045 RE = .0260 TO = 1664.</p> <p>P 4.2280-01 3.9680-01 6.8400-02 1.2260-01 3.2000-03 2.2600-02 2.2400-02 8.6000-03 .0000+00</p> <p>CP 1.3240+00 1.2417+00 2.0231-01 3.7386-01 -4.0542-03 5.7981-02 5.6715-02 1.3037-02 .0000+00</p> <p>P/PO1 7.2265-01 6.7821-01 1.1691-01 2.0955-01 5.4694-03 3.8970-02 3.8286-02 1.4699-02 .0000+00</p>								

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RUN	GROUP	PROJECT NO	MACH NO	CONFIGURATION	S-ALPHA	S-ROLL	PSI	ALPHA
2.	16.	304244	10.18	3	-14.94	-179.98	-.00	120.04
VALVE POS 2 PO -1603.1 Q-IMF = 2.379 P-IMF = .0328 RE = .1633 TO = 1883.								
P	0.9860-02	3.3204+00	3.2330+00	4.2828-01	1.6722-01	2.7951-01	1.8008-02	2.2430-02
CP	2.3978-02	1.3817+00	1.3450+00	1.6621-01	5.6492-02	1.0368-01	-6.2202-03	-4.3618-03
P/P01	2.0359-02	7.5231-01	7.3250-01	9.7034-02	3.7880-02	6.3328-02	4.0801-03	5.0819-03
VALVE POS 3 PO -1602.1 Q-IMF = 2.377 P-IMF = .0328 RE = .1629 TO = 1885.								
P	1.9993-01	4.4029+00	4.3197+00	4.5591-01	2.1260-01	7.4923-01	2.2610-02	2.2630-02
CP	6.6522-02	1.8382+00	1.8032+00	1.7790-01	7.5673-02	3.0136-01	-4.2781-03	-4.2696-03
P/P01	4.3294-02	9.9838-01	9.7952-01	1.0330-01	4.8228-02	1.6989-01	5.1270-03	5.1316-03
VALVE POS 4 PO -1601.6 Q-IMF = 2.377 P-IMF = .0328 RE = .1630 TO = 1884.								
P	7.1928-01	3.6952+00	3.7073+00	4.8414-01	3.9853-02	8.8098-01	2.7010-02	2.2630-02
CP	2.8883-01	1.5409+00	1.5460+00	1.8990-01	2.9786-03	3.5886-01	-4.5287-03	-4.2677-03
P/P01	1.6314-01	8.3809-01	8.4085-01	1.0981-01	9.0390-03	1.9981-01	4.9920-03	5.1327-03
VALVE POS 5 PO -1601.1 Q-IMF = 2.376 P-IMF = .0328 RE = .1629 TO = 1884.								
P	8.2355-01	3.3846+00	2.9749+00	3.5702-01	4.3057-02	9.8097-01	3.6225-02	2.4633-02
CP	3.3281-01	1.4107+00	1.2382+00	2.2064-01	4.3323-03	3.9904-01	9.8739-03	-3.4218-03
P/P01	1.8685-01	7.6790-01	6.7493-01	1.2638-01	9.7688-03	2.2256-01	1.2756-02	5.5887-03
VALVE POS 6 PO -1600.8 Q-IMF = 2.375 P-IMF = .0328 RE = .1627 TO = 1885.								
P	8.5117-01	3.2100+00	7.4603-01	5.8085-01	3.7250-02	6.2870-02	3.0353-01	2.4633-02
CP	3.4453-01	1.3375+00	3.0027-01	2.3073-01	1.8922-03	1.2677-02	1.1399-01	-3.4191-03
P/P01	1.9316-01	7.2866-01	1.6930-01	1.3182-01	8.4534-03	1.4268-02	6.8883-02	5.5901-03
VALVE POS 7 PO -1600.6 Q-IMF = 2.375 P-IMF = .0327 RE = .1627 TO = 1885.								
P	9.0801-01	3.0338+00	8.5595-01	1.3860+00	4.1650-02	3.4038-02	4.7221-01	2.3231-02
CP	3.4851-01	1.2635+00	3.4660-01	5.6977-01	3.7497-03	5.4233-04	1.8503-01	-4.0077-03
P/P01	2.0609-01	6.8859-01	1.9428-01	3.1459-01	9.4547-03	7.7257-03	1.0718-01	5.2728-03
VALVE POS 8 PO -1600.1 Q-IMF = 2.375 P-IMF = .0327 RE = .1630 TO = 1883.								
P	9.9326-01	2.8516+00	9.8409-01	2.4750+00	4.5461-02	4.1646-02	6.7930-01	3.7650-02
CP	4.0445-01	1.1870+00	4.0059-01	1.0286+00	5.3537-03	3.7476-03	2.7225-01	2.0649-03
P/P01	2.2547-01	6.4733-01	2.2339-01	5.6183-01	1.0328-02	9.4538-03	1.5420-01	8.5467-03
VALVE POS 9 PO -1599.3 Q-IMF = 2.374 P-IMF = .0327 RE = .1629 TO = 1883.								
P	8.8500-01	2.2753+00	1.2998+00	3.9704-01	5.6075-02	4.2247-02	6.4829-02	2.1208-01
CP	3.5905-01	9.4477-01	5.3380-01	1.5348-01	9.8343-03	4.0089-03	1.3522-02	7.5558-02
P/P01	2.0099-01	5.1675-01	2.9520-01	9.0172-02	1.2739-02	9.5947-03	1.4723-02	4.8166-02
VALVE POS 10 PO -1599.3 Q-IMF = 2.373 P-IMF = .0327 RE = .1627 TO = 1884.								
P	1.0380+00	1.6901+00	6.8076-03	2.2950+00	5.9880-02	4.8294-02	3.2614-02	3.4646-01
CP	4.2395-01	6.9828-01	-1.0921-02	9.5313-01	1.1440-02	6.5416-03	-4.7595-05	1.3218-01
P/P01	2.3576-01	3.8387-01	1.5462-03	5.2127-01	1.3601-02	1.0960-02	7.4078-03	7.8693-02
VALVE POS 11 PO -1599.3 Q-IMF = 2.373 P-IMF = .0327 RE = .1627 TO = 1884.								
P	1.1190+00	1.2175+00	3.8349+00	1.8870+00	3.4448-02	4.6251-02	2.5611-02	4.5501-01
CP	4.5767-01	4.9917-01	1.6020+00	7.8125-01	7.2404-04	5.6980-03	-2.5982-03	1.7792-01
P/P01	2.5416-01	2.7653-01	8.7103-01	4.2860-01	7.8238-03	1.0505-02	5.8172-03	1.0335-01
VALVE POS 12 PO -1597.5 Q-IMF = 2.372 P-IMF = .0327 RE = .1632 TO = 1880.								
P	1.4940+00	1.2333+00	3.8743-01	1.5157-01	1.1595-01	2.8832-02	2.4211-02	8.4112-01
CP	5.7816-01	5.1674-01	1.4956-01	5.0115-02	3.5099-02	-1.6330-03	-3.5814-03	3.4084-01
P/P01	3.1912-01	2.8601-01	8.8062-02	3.4451-02	2.6356-02	6.5534-03	5.5030-03	1.9118-01

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RUN GROUP PROJECT NO HATCH NO COMPLETION S-ALPHA S-ROLL PSI ALPHA  
2. 17. 304244 10.18 3 -10.06 -179.98 -.00 124.94

VALVE POS 2	PO -1597.0	Q-IMF = 2.371	P-IMF = .0327	RE = .1630	TO = 1881.
P	2.9800+00	2.7947+00	2.9893-01	1.3290-01	3.3817-01
CP	2.8587-02	1.2432+00	1.1230-01	4.2300-02	1.2716-01
P/PO1	2.2845-02	6.7763-01	6.3950-01	3.0230-02	7.5988-02
VALVE POS 3	PO -1596.5	Q-IMF = 2.371	P-IMF = .0327	RE = .1632	TO = 1879.
P	1.2708-01	4.4193+00	4.2281+00	3.2276-01	1.8144-01
CP	3.9820-02	1.8504+00	1.7698+00	1.2330-01	6.2731-02
P/PO1	2.8902-02	1.0050+00	9.8156-01	1.3402-02	4.1263-02
VALVE POS 4	PO -1596.5	Q-IMF = 2.371	P-IMF = .0327	RE = .1634	TO = 1878.
P	4.3489-01	4.0953+00	4.1066+00	3.6160-01	3.5047-02
CP	1.6965-01	1.7136+00	1.7183+00	1.3873-01	9.0342-04
P/PO1	9.8893-02	9.3126-01	9.3382-01	8.2227-02	7.9695-03
VALVE POS 5	PO -1597.3	Q-IMF = 2.373	P-IMF = .0327	RE = .1640	TO = 1875.
P	5.0674-01	3.7877+00	3.3786+00	4.5049-01	3.8852-02
CP	1.9978-01	1.5826+00	1.4102+00	1.7186-01	2.5854-03
P/PO1	1.1514-01	8.6066-01	7.6770-01	1.9009-01	8.8280-03
VALVE POS 6	PO -1598.0	Q-IMF = 2.374	P-IMF = .0327	RE = .1639	TO = 1876.
P	5.2795-01	3.5817+00	4.7713-01	4.7212-01	3.6248-02
CP	2.0864-01	1.4952+00	1.8723-01	1.8512-01	1.4826-03
P/PO1	1.1992-01	8.1353-01	1.0837-01	1.0724-01	8.2333-03
VALVE POS 7	PO -1598.8	Q-IMF = 2.375	P-IMF = .0328	RE = .1643	TO = 1874.
P	5.7478-01	3.3946+00	5.6983-01	1.1880+00	3.9653-02
CP	2.2820-01	1.4175+00	2.2612-01	4.8638-01	2.9035-03
P/PO1	1.3047-01	7.7164-01	1.2934-01	2.6966-01	9.0005-03
VALVE POS 8	PO -1599.3	Q-IMF = 2.376	P-IMF = .0328	RE = .1645	TO = 1873.
P	6.4103-01	3.0965+00	7.5404-01	2.4510+00	4.3461-02
CP	2.5598-01	1.2893+00	3.0354-01	1.0177+00	3.3426-03
P/PO1	1.4544-01	7.0256-01	1.7108-01	5.5610-01	1.0314-02
VALVE POS 9	PO -1599.5	Q-IMF = 2.377	P-IMF = .0328	RE = .1650	TO = 1870.
P	6.8726-01	2.6889+00	9.8529-01	2.6389-01	5.7477-02
CP	2.7530-01	1.1173+00	4.0066-01	9.7214-02	1.0388-02
P/PO1	1.5586-01	6.0980-01	2.2345-01	5.9847-02	1.3035-02
VALVE POS 10	PO -1600.3	Q-IMF = 2.379	P-IMF = .0328	RE = .1654	TO = 1868.
P	7.4530-01	2.0798+00	5.0056-03	2.6490+00	5.1669-02
CP	2.9949-01	6.6043-01	-1.1685-02	1.0997+00	7.9301-03
P/PO1	1.6891-01	4.7134-01	1.1344-03	6.0035-01	1.1710-02
VALVE POS 11	PO -1600.8	Q-IMF = 2.380	P-IMF = .0328	RE = .1655	TO = 1868.
P	8.9380-01	1.5721+00	3.7238+00	2.2710+00	3.3845-02
CP	3.6180-01	6.4684-01	1.5510+00	9.4052-01	4.3341-04
P/PO1	2.0250-01	3.3618-01	8.4366-01	5.1452-01	7.6680-03
VALVE POS 12	PO -1601.1	Q-IMF = 2.381	P-IMF = .0328	RE = .1658	TO = 1864.
P	9.8200-01	1.0149+00	2.5000-01	1.1253-01	1.2256-01
CP	3.5670-01	4.1234-01	9.1259-02	3.3478-02	3.7695-02
P/PO1	1.9978-01	2.2977-01	5.6838-02	2.3485-02	2.1758-02

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RUN	GROUP	PROJECT NO	MACH NO	CONFIGURATION	S-ALPHA	S-ROLL	PSI	ALPHA
2.	18.	30244	10.18	3	-4.99	-174.98	-.00	130.01
<p>VALVE POS 2 PO = 1602.1 Q-INF = 2.382 P-INF = .0328 RE = .1659 TO = 1866.</p> <p>P 1.0747-01 2.4799+00 2.3099+00 2.1143-01 1.1115-01 3.9584-01 2.9813-02 2.9640-02 .0000+00</p> <p>CP 3.1327-02 1.0272+00 9.5591-01 7.4970-02 3.2870-02 1.5238-01 -1.2733-03 -1.3462-03 .0000+00</p> <p>P/PO1 2.4325-02 5.6129-01 5.2283-01 4.7856-02 2.5157-02 8.9594-02 6.7479-03 6.7086-03 .0000+00</p> <p>VALVE POS 3 PO = 1603.8 Q-INF = 2.384 P-INF = .0329 RE = .1658 TO = 1868.</p> <p>P 7.5851-02 4.3073+00 4.0871+00 2.4347-01 1.4860-01 1.0978+00 2.7612-02 2.8438-02 .0000+00</p> <p>CP 1.8024-02 1.7928+00 1.7004+00 8.8326-02 4.8536-02 4.4664-01 -2.2075-03 -1.8612-03 .0000+00</p> <p>P/PO1 1.7152-02 9.7401-01 9.2421-01 5.5056-02 3.3603-02 2.4824-01 6.2440-03 6.4307-03 .0000+00</p> <p>VALVE POS 4 PO = 1604.6 Q-INF = 2.385 P-INF = .0329 RE = .1655 TO = 1870.</p> <p>P 2.4336-01 4.4387+00 4.3932+00 2.8832-01 3.1242-02 1.3179+00 2.2210-02 3.0841-02 .0000+00</p> <p>CP 8.8254-02 1.8474+00 1.8283+00 1.0711-01 -6.8873-04 5.3883-01 -4.4758-03 -8.5667-04 .0000+00</p> <p>P/PO1 5.5016-02 1.0034+00 9.9317-01 6.5180-02 7.0627-03 2.9794-01 5.0209-03 6.9722-03 .0000+00</p> <p>VALVE POS 5 PO = 1604.8 Q-INF = 2.386 P-INF = .0329 RE = .1657 TO = 1869.</p> <p>P 2.8919-01 4.1909+00 3.7674+00 3.5099-01 3.3244-02 1.8227+00 3.3046-01 3.1642-02 .0000+00</p> <p>CP 1.0744-01 1.7430+00 1.5655+00 1.3334-01 1.6735-04 7.5023-01 4.0899-02 -5.2426-04 .0000+00</p> <p>P/PO1 6.5360-02 9.4717-01 8.5146-01 7.9327-02 6.5177-03 4.1194-01 2.9485-02 7.1514-03 .0000+00</p> <p>VALVE POS 6 PO = 1604.8 Q-INF = 2.386 P-INF = .0329 RE = .1657 TO = 1869.</p> <p>P 3.0600-01 3.9953+00 2.9293-01 3.8062-01 2.8838-02 5.5061-02 6.1347-01 3.1442-02 .0000+00</p> <p>CP 1.1449-01 1.6610+00 1.0900-01 1.4577-01 -1.6996-03 9.2928-03 2.4421-01 -6.0821-04 .0000+00</p> <p>P/PO1 6.9160-02 9.0297-01 6.6204-02 8.6024-02 6.5177-03 1.2444-02 1.3910-01 7.1082-03 .0000+00</p> <p>VALVE POS 7 PO = 1603.3 Q-INF = 2.383 P-INF = .0329 RE = .1656 TO = 1869.</p> <p>P 3.4603-01 3.8146+00 3.9904-01 8.0400-01 3.5247-02 5.2258-02 9.1641-01 2.4433-02 .0000+00</p> <p>CP 1.3140-01 1.5868+00 1.5365-01 3.2356-01 1.0008-03 8.1385-03 3.7073-01 -3.5369-03 .0000+00</p> <p>P/PO1 7.8281-02 8.6296-01 9.0273-02 1.8188-01 7.9737-03 1.1822-02 2.0731-01 5.5272-03 .0000+00</p> <p>VALVE POS 8 PO = 1601.8 Q-INF = 2.381 P-INF = .0328 RE = .1652 TO = 1870.</p> <p>P 4.1788-01 3.5041+00 5.7464-01 2.2560+00 4.2857-02 5.1257-02 9.5009-01 8.8318-02 .0000+00</p> <p>CP 1.6174-01 1.4580+00 2.2758-01 9.3381-01 4.2128-03 7.7410-03 3.8528-01 2.3308-02 .0000+00</p> <p>P/PO1 9.4634-02 7.9354-01 1.3013-01 5.1090-01 9.7055-03 1.1608-02 2.1516-01 2.0001-02 .0000+00</p> <p>VALVE POS 9 PO = 1600.3 Q-INF = 2.378 P-INF = .0328 RE = .1649 TO = 1871.</p> <p>P 4.6591-01 3.0532+00 7.7846-01 1.6939-01 5.3872-02 4.3448-02 4.1018-02 4.6542-01 .0000+00</p> <p>CP 1.8212-01 1.2700+00 3.1354-01 5.7436-02 8.8632-03 4.4803-03 3.4585-03 1.8191-01 .0000+00</p> <p>P/PO1 1.0562-01 6.9216-01 1.7648-01 3.8400-02 1.2213-02 9.8497-03 9.2988-03 1.0551-01 .0000+00</p> <p>VALVE POS 10 PO = 1599.5 Q-INF = 2.377 P-INF = .0328 RE = .1647 TO = 1872.</p> <p>P 5.3356-01 2.4754+00 6.6073-03 2.9580+00 4.1455-02 6.3471-02 3.0217-02 7.1615-01 .0000+00</p> <p>CP 2.1069-01 1.0277+00 -1.1009-02 1.2307+00 3.6524-03 1.2915-02 2.2900-03 2.8752-01 .0000+00</p> <p>P/PO1 1.2103-01 5.6150-01 1.4987-03 6.7096-01 9.4033-03 1.4397-02 8.6688-03 1.6245-01 .0000+00</p> <p>VALVE POS 11 PO = 1599.0 Q-INF = 2.376 P-INF = .0328 RE = .1646 TO = 1872.</p> <p>P 6.6464-01 1.9379+00 3.4822+00 2.6310+00 2.9840-02 5.9466-02 3.6817-02 8.1669-01 .0000+00</p> <p>CP 2.6593-01 8.0180-01 1.4517+00 1.0935+00 -1.2306-03 1.1238-02 2.5476-03 3.2992-01 .0000+00</p> <p>P/PO1 1.5081-01 4.3972-01 7.9011-01 5.9698-01 6.7707-03 1.3493-02 8.8077-03 1.8531-01 .0000+00</p> <p>VALVE POS 12 PO = 1598.3 Q-INF = 2.375 P-INF = .0328 RE = .1647 TO = 1871.</p> <p>P 8.9620-01 7.7429-01 1.5651-01 8.9099-02 1.2817-01 5.4060-02 3.7817-02 1.2646+00 .0000+00</p> <p>CP 3.6352-01 3.1220-01 5.2131-02 2.3723-02 4.0173-02 8.9711-03 2.1325-03 5.1862-01 .0000+00</p> <p>P/PO1 2.0343-01 1.7575-01 3.5541-02 2.9221-02 1.2499-02 1.2271-02 8.5840-03 2.8705-01 .0000+00</p>								

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RUN GROUP PROJECT NO MACH NO CONFIGURATION S-ALPHA S-ROLL PSI ALPHA  
 2. 19. 304244 10.18 3 -02 -179.98 .01 135.02

VALVE POS	P	CP	P/POI	PO	Q-INF	Q-IMF	Q-IMF	P-IMF	RE	TO	PSI	ALPHA
VALVE POS 2	P	1.1288-01	1.9842+00	1.8161+00	1.6258-01	1.0113-01	4.6011-01	3.1414-02	RE = .1645	TO = 1873.		
	CP	3.3698-02	8.2097-01	7.5026-01	5.4609-02	2.8759-02	1.7978-01	-5.7294-04				
	P/POI	2.5602-02	4.3005-01	4.1193-01	3.6876-02	2.2939-02	1.0436-01	7.1252-03				
VALVE POS 3	P	5.0033-02	3.8788+00	3.6758+00	1.9462-01	1.1435-01	1.2580+00	2.9813-02	RE = .1644	TO = 1874.		
	CP	7.2592-03	1.6180+00	1.5325+00	6.8082-02	3.4317-02	5.1548-01	-1.2470-03				
	P/POI	1.1348-02	8.7473-01	8.3368-01	4.4139-02	2.5935-02	2.8533-01	6.7617-03				
VALVE POS 4	P	1.4330-01	4.3775+00	4.3242+00	2.3566-01	3.4246-02	1.5770+00	2.5611-02	RE = .1644	TO = 1874.		
	CP	4.6483-02	1.8274+00	1.8050+00	8.5334-02	6.1535-04	6.4953-01	-3.0163-03				
	P/POI	3.2495-02	9.9267-01	9.8058-01	5.3440-02	7.7658-03	3.5762-01	5.6078-03				
VALVE POS 5	P	1.7231-01	4.2894+00	4.0210+00	2.7110-01	3.1642-02	2.1357+00	1.7248-01	RE = .1641	TO = 1876.		
	CP	5.8693-02	1.7905+00	1.6776+00	1.0025-01	-4.7898-04	8.8453-01	5.8761-02				
	P/POI	3.9077-02	9.7272-01	9.1186-01	6.1479-02	7.1756-03	4.8431-01	3.9113-02				
VALVE POS 6	P	1.8252-01	4.1655+00	1.8981-01	2.9453-01	2.8037-02	6.5072-02	8.1836-01	RE = .1640	TO = 1877.		
	CP	6.2994-02	1.7385+00	6.6061-02	1.1011-01	-1.9940-03	1.3586-02	3.3048-01				
	P/POI	4.1395-02	9.4472-01	4.3048-02	6.6798-02	6.3588-03	1.4758-02	1.8560-01				
VALVE POS 7	P	2.1895-01	4.0401+00	3.0194-01	9.3784-01	3.5848-02	6.4071-02	9.0507-01	RE = .1638	TO = 1878.		
	CP	7.8327-02	1.6860+00	1.1324-01	3.8078-01	1.2932-03	1.3167-02	3.6699-01				
	P/POI	4.9661-02	9.1636-01	6.8485-02	2.1272-01	8.1309-03	1.4533-02	2.0529-01				
VALVE POS 8	P	2.9460-01	3.8594+00	4.5390-01	2.0820+00	4.3858-02	6.6073-02	1.4754+00	RE = .1637	TO = 1879.		
	CP	1.1015-01	1.6099+00	1.7717-01	8.6211-01	4.6626-03	1.4008-02	6.0692-01				
	P/POI	6.6816-02	8.7533-01	1.0295-01	4.7221-01	9.9473-03	1.4986-02	3.3463-01				
VALVE POS 9	P	3.4843-01	3.4921+00	6.0968-01	1.2274-01	4.7063-02	6.1669-02	5.3224-02	RE = .1634	TO = 1881.		
	CP	1.3283-01	1.4557+00	2.4276-01	3.7858-02	6.0148-03	1.2161-02	8.6072-03				
	P/POI	7.9041-02	7.9219-01	1.3830-01	2.7843-02	1.0676-02	1.3989-02	1.2074-02				
VALVE POS 10	P	4.1868-01	2.8427+00	5.6062-03	3.2730+00	3.6449-02	6.7875-02	4.4020-02	RE = .1634	TO = 1881.		
	CP	1.6236-01	1.1822+00	-1.1430-02	1.3632+00	1.5460-03	1.4768-02	4.7313-03				
	P/POI	9.4962-02	6.4476-01	1.2716-03	7.4236-01	8.2670-03	1.5395-02	9.9842-03				
VALVE POS 11	P	5.2255-01	2.3171+00	3.1895+00	3.0060+00	3.0240-02	6.5273-02	4.4220-02	RE = .1631	TO = 1883.		
	CP	2.0607-01	9.6114-01	1.3155+00	1.2510+00	-1.0652-03	1.3674-02	4.8165-03				
	P/POI	1.1853-01	5.2558-01	7.1664-01	6.8182-01	6.8591-03	1.4803-02	1.0030-02				
VALVE POS 12	P	6.9286-01	5.8332-01	1.1092-01	8.8098-02	1.3398-01	6.9277-02	4.4820-02	RE = .1631	TO = 1883.		
	CP	2.7768-01	2.3160-01	3.2874-02	2.3272-02	4.2573-02	1.5355-02	5.0661-03				
	P/POI	1.5713-01	1.3229-01	2.5156-02	1.9979-02	3.0384-02	1.5711-02	1.0164-02				

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RUN	GROUP	PROJECT NO	MACH NO	CONFIGURATION	S-ALPHA	S-ROLL	PSI	ALPHA
2.	20.	304244	10.18	3	4.98	-179.98	.00	139.98
<p>VALVE POS 2 PO = 1601.3 Q-IMF = 2.376 P-IMF = .0328 RE = .1626 TO = 1884.</p> <p>P 1.2769-01 1.5662+00 1.4244+00 1.3994-01 9.5927-02 2.3617-01 3.6016-02 3.8451-02 .0000+00</p> <p>CP 3.9951-02 6.4538-01 5.8571-01 6.3116-02 2.6417-02 2.0344-01 1.3697-03 2.3946-03 .0000+00</p> <p>P/P01 2.8970-02 3.5534-01 3.2318-02 3.1754-02 2.1674-02 1.8171-01 8.1716-03 8.7241-03 .0000+00</p>								
<p>VALVE POS 3 PO = 1601.3 Q-IMF = 2.376 P-IMF = .0328 RE = .1626 TO = 1886.</p> <p>P 4.1828-02 3.5608+00 3.3576+00 1.6719-01 8.5714-02 1.4587+00 3.4015-02 3.8051-02 .0000+00</p> <p>CP 3.8158-03 1.4849+00 1.3994+00 2.6576-02 2.2287-02 6.0016-01 5.2753-04 2.2260-03 .0000+00</p> <p>P/P01 9.4902-03 8.0790-01 7.6180-01 3.7932-02 1.9448-02 3.3097-01 7.7176-03 8.6332-03 .0000+00</p>								
<p>VALVE POS 4 PO = 1601.1 Q-IMF = 2.376 P-IMF = .0328 RE = .1629 TO = 1884.</p> <p>P 9.8264-02 4.4327+00 4.3587+00 1.9662-01 4.3450-02 1.8541+00 3.1614-02 3.8451-02 .0000+00</p> <p>CP 2.7567-02 1.8518+00 1.8206+00 6.8960-02 4.5008-03 7.6682-01 -4.8375-04 2.3937-03 .0000+00</p> <p>P/P01 2.2294-02 1.0057+00 9.8890-01 4.4609-02 9.8997-03 4.2066-01 7.1726-03 8.7238-03 .0000+00</p>								
<p>VALVE POS 5 PO = 1600.3 Q-IMF = 2.376 P-IMF = .0328 RE = .1636 TO = 1879.</p> <p>P 1.1808-01 4.4626+00 4.2356+00 2.0323-01 4.0254-02 2.4741+00 2.2490-01 4.2056-02 .0000+00</p> <p>CP 3.5903-02 1.8642+00 1.7687+00 7.1736-02 3.1913-03 1.0274+00 8.0857-02 3.9098-03 .0000+00</p> <p>P/P01 2.6789-02 1.0125+00 9.6097-01 4.6107-02 9.1326-03 5.6132-01 5.1025-02 9.5415-03 .0000+00</p>								
<p>VALVE POS 6 PO = 1600.3 Q-IMF = 2.376 P-IMF = .0328 RE = .1635 TO = 1880.</p> <p>P 1.2849-01 4.4267+00 1.4676-01 2.1764-01 3.5447-02 4.3849-02 7.3546-01 4.0654-02 .0000+00</p> <p>CP 4.0288-02 1.8493+00 4.7981-02 7.7812-02 1.1302-03 4.8682-03 2.9575-01 3.3217-03 .0000+00</p> <p>P/P01 2.9153-02 1.0044+00 3.3300-02 4.9383-02 8.0424-03 9.9492-03 1.6688-01 9.2244-03 .0000+00</p>								
<p>VALVE POS 7 PO = 1600.6 Q-IMF = 2.376 P-IMF = .0328 RE = .1632 TO = 1882.</p> <p>P 1.6091-01 4.2610+00 2.4507-01 7.5644-01 4.0654-02 6.4271-02 1.3914+00 3.0441-02 .0000+00</p> <p>CP 5.3937-02 1.7797+00 8.9363-02 3.6460-01 3.3226-03 1.3432-02 5.7104-01 -9.7630-04 .0000+00</p> <p>P/P01 3.6511-02 9.6686-01 5.5609-02 1.7164-01 9.2247-03 1.4675-02 3.1571-01 6.9072-03 .0000+00</p>								
<p>VALVE POS 8 PO = 1600.6 Q-IMF = 2.376 P-IMF = .0328 RE = .1633 TO = 1881.</p> <p>P 2.2953-01 4.0953+00 3.4138-01 1.9080+00 4.6662-02 6.4271-02 1.8652+00 1.8364-01 .0000+00</p> <p>CP 8.2820-02 1.7098+00 1.2988-01 7.8921-01 5.8493-03 1.3540-02 7.7076-01 6.3500-02 .0000+00</p> <p>P/P01 5.2082-02 9.2916-01 7.7454-02 4.3290-01 1.0587-02 1.4582-02 4.2295-01 4.1666-02 .0000+00</p>								
<p>VALVE POS 9 PO = 1600.3 Q-IMF = 2.376 P-IMF = .0328 RE = .1635 TO = 1880.</p> <p>P 2.7378-01 3.7131+00 4.5410-01 1.0372-01 4.3858-02 6.6674-02 6.1027-02 8.5874-01 .0000+00</p> <p>CP 1.0144-01 1.5490+00 1.7733-01 2.9863-02 4.6703-03 1.4273-02 1.1896-02 3.4764-01 .0000+00</p> <p>P/P01 6.2121-02 8.4250-01 1.0304-01 2.3533-02 9.9514-03 1.5128-02 1.3847-02 1.9485-01 .0000+00</p>								
<p>VALVE POS 10 PO = 1600.3 Q-IMF = 2.375 P-IMF = .0328 RE = .1630 TO = 1883.</p> <p>P 3.3122-01 3.2070+00 4.2047-03 3.5670+00 3.6449-02 5.4661-02 4.5820-02 1.1054+00 .0000+00</p> <p>CP 1.2566-01 1.3364+00 -1.2019-02 1.4880+00 1.5565-03 9.3084-03 5.5022-03 4.5159-01 .0000+00</p> <p>P/P01 7.5176-02 7.2787-01 9.5432-04 8.0959-01 8.2726-03 1.2452-02 1.0400-02 2.5088-01 .0000+00</p>								
<p>VALVE POS 11 PO = 1600.3 Q-IMF = 2.375 P-IMF = .0327 RE = .1628 TO = 1884.</p> <p>P 3.8546-01 2.6934+00 2.7917+00 3.3120+00 3.3445-02 6.3471-02 5.2423-02 1.2451+00 .0000+00</p> <p>CP 1.4851-01 1.1203+00 1.1617+00 1.3608+00 2.9328-04 1.2936-02 8.2844-03 5.1045-01 .0000+00</p> <p>P/P01 8.7494-02 6.1136-01 6.3369-01 7.5178-01 7.5915-03 1.4407-02 1.1899-02 2.8261-01 .0000+00</p>								
<p>VALVE POS 12 PO = 1600.3 Q-IMF = 2.375 P-IMF = .0327 RE = .1628 TO = 1884.</p> <p>P 5.0494-01 4.2918-01 9.1301-02 8.5695-02 1.5040-01 5.6263-02 5.2423-02 2.0350+00 .0000+00</p> <p>CP 1.9882-01 1.6692-01 2.4654-02 2.2294-02 4.9539-02 9.9010-03 8.2844-03 8.4308-01 .0000+00</p> <p>P/P01 1.1461-01 9.7419-02 2.0724-02 1.9452-02 3.4139-02 1.2771-02 1.1899-02 4.6193-01 .0000+00</p>								

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RUN	GROUP	PROJECT NO	HATCH NO	CONFIGURATION	S-ALPHA	S-ROLL	PSI	ALPHA
2.	21.	304244	10.18	3	10.08	-179.98	.00	145.00
VALVE POS 2 PO = 1600.6 Q-IMF = 2.375 P-IMF = .0328 RE = .1629 TO = 1884.								
P	1.9773-01	1.1879+00	1.0772+00	1.1853-01	8.1509-02	5.6703-01	3.9818-02	4.1455-02
CP	6.9435-02	4.8629-01	4.3976-01	3.6112-02	2.0326-02	2.2493-01	2.9741-03	3.6635-03
P/POI	4.4876-02	2.6959-01	2.4447-01	2.6901-02	1.8499-02	1.2869-01	9.0367-03	9.4083-03
VALVE POS 3 PO = 1603.3 Q-IMF = 2.380 P-IMF = .0328 RE = .1636 TO = 1881.								
P	4.2028-02	3.0457+00	2.8773+00	1.4456-01	6.4486-02	1.7403+00	3.8217-02	4.1856-02
CP	3.6684-03	1.2658+00	1.1950+00	4.9945-02	7.1734-01	2.673-03	3.7960-03	3.7960-03
P/POI	9.5189-03	6.8982-01	6.5168-01	3.2741-02	1.4805-02	3.9415-01	6.6557-03	9.4799-03
VALVE POS 4 PO = 1604.3 Q-IMF = 2.382 P-IMF = .0328 RE = .1636 TO = 1882.								
P	7.6451-02	4.2103+00	4.1576+00	1.5597-01	5.0067-02	2.1192+00	3.8417-02	4.2457-02
CP	1.8313-02	1.7541+00	1.7320+00	5.1705-02	7.2346-03	8.7606-01	2.3429-03	4.0391-03
P/POI	1.7306-02	9.5307-01	9.4114-01	3.5307-02	1.1333-02	4.7972-01	8.6964-03	9.6108-03
VALVE POS 5 PO = 1604.6 Q-IMF = 2.383 P-IMF = .0329 RE = .1642 TO = 1878.								
P	9.7265-02	4.4387+00	4.4113+00	1.5057-01	4.5661-02	2.8650+00	2.9053-01	4.3658-02
CP	2.7029-02	1.6489+00	1.8374+00	4.9398-02	5.3795-03	1.1895+00	1.0813-01	4.5330-03
P/POI	2.2005-02	1.0042+00	9.9802-01	3.4065-02	1.0330-02	6.4819-01	6.5730-02	9.8774-03
VALVE POS 6 PO = 1606.1 Q-IMF = 2.385 P-IMF = .0329 RE = .1644 TO = 1878.								
P	1.0787-01	4.4506+00	1.2374-01	1.6198-01	4.0454-02	5.9266-02	1.1767+00	4.3458-02
CP	3.1438-02	1.8522+00	3.8090-02	5.4123-02	3.1723-03	1.1059-02	4.7957-01	4.4318-03
P/POI	2.4382-02	1.0060+00	2.7968-02	3.6612-02	9.1437-03	1.3396-02	2.6597-01	9.8227-03
VALVE POS 7 PO = 1607.1 Q-IMF = 2.387 P-IMF = .0329 RE = .1645 TO = 1878.								
P	1.2989-01	4.4103+00	2.0122-01	5.9927-01	4.3258-02	5.5261-02	1.7366+00	3.8451-02
CP	4.0633-02	1.8341+00	7.0523-02	2.3730-01	4.3364-03	9.3659-03	7.1383-01	2.3226-03
P/POI	2.9339-02	9.9622-01	4.5453-02	1.3536-01	9.7712-03	1.2483-02	3.9227-01	8.6855-03
VALVE POS 8 PO = 1607.6 Q-IMF = 2.388 P-IMF = .0329 RE = .1647 TO = 1877.								
P	1.8592-01	4.3357+00	2.4547-01	1.3560+00	4.5060-02	5.8065-02	2.2064+00	2.3952-01
CP	6.4080-02	1.8021+00	8.9020-02	6.2951-01	5.0837-03	1.0530-02	1.028-01	8.6528-02
P/POI	4.1980-02	9.7896-01	5.5426-02	3.4682-01	1.0174-02	1.3110-02	4.9818-01	5.4081-02
VALVE POS 9 PO = 1608.1 Q-IMF = 2.389 P-IMF = .0329 RE = .1651 TO = 1875.								
P	2.2055-01	4.0057+00	3.2076-01	1.3755-01	4.3658-02	1.1993-01	1.3326-01	7.5544-01
CP	7.8532-02	1.6630+00	1.2048-01	4.3791-02	4.4870-03	3.8415-02	4.1994-02	3.0244-01
P/POI	4.9772-02	9.0399-01	7.2387-02	3.1042-02	9.8526-03	2.7066-02	3.0073-02	1.7049-01
VALVE POS 10 PO = 1608.3 Q-IMF = 2.389 P-IMF = .0329 RE = .1649 TO = 1876.								
P	2.5577-01	3.5190+00	7.2080-03	3.7440+00	4.2256-02	7.9088-02	6.0427-02	1.3877+00
CP	9.3270-02	1.4592+00	-1.0771-02	1.5533+00	3.8993-03	1.9316-02	1.1505-02	5.6708-01
P/POI	5.7718-02	7.9411-01	1.6266-03	8.4488-01	9.5356-03	1.7847-02	1.3636-02	3.1316-01
VALVE POS 11 PO = 1608.3 Q-IMF = 2.390 P-IMF = .0329 RE = .1653 TO = 1874.								
P	2.8379-01	3.0308+00	2.2934+00	3.6600+00	3.4446-02	6.1869-02	5.6825-02	1.5920+00
CP	1.0497-01	1.2546+00	9.4598-01	1.5179+00	6.2699-04	1.2103-02	9.9924-03	6.5243-01
P/POI	6.4028-02	6.8380-01	5.1744-01	8.2576-01	7.7716-03	1.3959-02	1.2821-02	3.5918-01
VALVE POS 12 PO = 1608.6 Q-IMF = 2.390 P-IMF = .0329 RE = .1651 TO = 1875.								
P	3.5644-01	3.0187-01	8.0489-02	8.8098-02	2.3712-01	6.5873-02	5.6425-02	2.4421+00
CP	1.3537-01	1.1253-01	1.9894-02	2.3078-02	8.5436-02	1.3777-02	9.8237-03	1.0081+00
P/POI	6.0414-02	6.8103-02	1.8159-02	1.9875-02	5.3494-02	1.4461-02	1.2730-02	5.5094-01

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RUN GROUP PROJECT NO MACH NO CONFIGURATION S-ALPHA S-ROLL PSI ALPHA  
2. 23. 304244 10.18 3 14.06 -179.98 .00 149.06

VALVE POS	PO	Q-IMF	P-IMF	RE	TO
P	2.1734-01	9.2923-01	8.5155-01	1.0932-01	4.1618-02
CP	7.7629-02	3.7706-01	3.4430-01	3.2193-02	3.7165-03
P/POI	4.9284-02	2.1071-01	1.9309-01	2.4789-02	1.6121-02
VALVE POS	3	PO = 1599.5	Q-IMF = 2.375	P-IMF = .0327	RE = .1634
P	4.7832-02	2.6770+00	2.4910+00	1.2254-01	4.8865-02
CP	6.3522-03	1.1134+00	1.0354+00	3.7809-02	6.7873-03
P/POI	1.0858-02	6.0769-01	3.6560-01	2.7817-02	1.1093-02
VALVE POS	4	PO = 1598.3	Q-IMF = 2.373	P-IMF = .0327	RE = .1634
P	6.9646-02	3.9893+00	3.9114+00	1.2154-01	5.2069-02
CP	1.5558-02	1.6623+00	1.6344+00	3.7422-02	0.1515-03
P/POI	1.5821-02	9.0623-01	8.8855-01	2.7609-02	1.1828-02
VALVE POS	5	PO = 1597.3	Q-IMF = 2.371	P-IMF = .0327	RE = .1632
P	8.6658-02	4.3551+00	4.4233+00	1.0852-01	6.6862-02
CP	2.2753-02	1.8227+00	1.8514+00	3.1972-02	5.9721-03
P/POI	1.9700-02	9.9005-01	1.0056+00	2.4670-02	1.0653-02
VALVE POS	6	PO = 1597.5	Q-IMF = 2.372	P-IMF = .0327	RE = .1633
P	9.2262-02	4.4342+00	1.1933-01	1.1833-01	4.3155-02
CP	2.5108-02	1.8556+00	3.6518-02	3.6994-02	3.3185-03
P/POI	2.0969-02	1.0078+00	2.7121-02	2.6894-02	9.3307-03
VALVE POS	7	PO = 1597.0	Q-IMF = 2.371	P-IMF = .0327	RE = .1633
P	1.1848-01	4.4447+00	1.6819-01	4.9155-01	6.1856-02
CP	3.6174-02	1.8606+00	5.7136-02	1.9350-01	3.8618-03
P/POI	2.6936-02	1.0105+00	3.8237-02	1.1175-01	9.5158-03
VALVE POS	8	PO = 1596.5	Q-IMF = 2.371	P-IMF = .0327	RE = .1632
P	1.5730-01	4.4462+00	1.7840-01	1.3200+00	4.2256-02
CP	5.2569-02	1.8618+00	6.1467-02	3.4304-01	4.0363-03
P/POI	3.5774-02	1.0111+00	4.0571-02	3.0019-01	9.6099-03
VALVE POS	9	PO = 1602.8	Q-IMF = 2.380	P-IMF = .0328	RE = .1641
P	1.8312-01	4.2073+00	2.3927-01	8.6296-02	4.2657-02
CP	6.3145-02	1.7538+00	8.6733-02	2.2466-02	4.1326-03
P/POI	4.1476-02	9.5293-01	5.4192-02	1.9546-02	9.6615-03
VALVE POS	10	PO = 1606.6	Q-IMF = 2.386	P-IMF = .0329	RE = .1646
P	2.0233-01	3.8251+00	5.4060-03	2.9150+00	4.0454-02
CP	7.1008-02	1.5892+00	-1.1523-02	1.6269+00	3.1652-03
P/POI	4.5714-02	8.6421-01	1.2214-03	8.8453-01	9.1399-03
VALVE POS	11	PO = 1609.3	Q-IMF = 2.391	P-IMF = .0330	RE = .1654
P	2.0914-01	3.3443+00	1.8837+00	3.8910+00	3.0641-02
CP	7.3678-02	1.3849+00	7.7400-01	1.6135+00	-9.7340-04
P/POI	4.7156-02	7.5406-01	4.2472-01	8.7732-01	6.9087-03
VALVE POS	12	PO = 1611.6	Q-IMF = 2.394	P-IMF = .0330	RE = .1656
P	2.6618-01	2.2980-01	7.0478-02	7.2881-02	2.6095-01
CP	9.7375-02	8.2184-02	1.5646-02	1.6649-02	9.5191-02
P/POI	5.9931-02	5.1741-02	1.5869-02	1.6409-02	5.8754-02

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RUN	GROUP	PROJECT NO	MACH NO	CONFIGURATION	S-ALPHA	S-ROLL	PSI	ALPHA
2.	24.	304244	10.10	3	14.46	-179.97	.01	149.46
VALVE POS 2 PO -1598.8 Q-1NF = 2.374 P-1NF = .0327 RE = .1636 TO = 1878.								
P	1.8512-01	9.0240-01	9.3313-01	1.0572-01	6.7690-02	6.1620-01	4.0818-02	4.8064-02
CP	6.4184-02	3.6630-01	3.3712-01	3.0738-02	1.4722-02	2.4579-01	3.4033-03	6.4553-03
P/P01	4.2036-02	2.0491-01	1.8918-01	2.4003-02	1.5371-02	1.3994-01	9.2886-03	1.0914-02
VALVE POS 3 PO -1598.8 Q-1NF = 2.373 P-1NF = .0327 RE = .1632 TO = 1881.								
P	5.2235-02	2.6083+00	2.4435+00	1.1633-01	4.6061-02	1.8616+00	3.6217-02	4.3858-02
CP	8.2189-03	1.0851+00	1.0157+00	3.5223-02	5.6179-03	7.7055-01	2.3128-03	4.6898-03
P/P01	1.1865-02	5.9244-01	5.5502-01	2.6423-02	1.0462-02	4.2284-01	8.6805-03	9.9619-03
VALVE POS 4 PO -1598.5 Q-1NF = 2.373 P-1NF = .0327 RE = .1633 TO = 1880.								
P	7.0847-02	3.9788+00	3.9415+00	1.1873-01	5.3872-02	2.4472+00	4.4820-02	4.4860-02
CP	1.6062-02	1.6627+00	1.6489+00	3.6234-02	8.9098-03	1.0173+00	5.0958-03	5.1126-03
P/P01	1.6093-02	9.0380-01	9.9531-01	2.6970-02	1.2237-02	5.2586-01	1.0181-02	1.0190-02
VALVE POS 5 PO -1599.5 Q-1NF = 2.375 P-1NF = .0327 RE = .1634 TO = 1880.								
P	8.6258-02	4.3461+00	4.4293+00	1.0291-01	4.9065-02	3.1810+00	3.4896-01	4.6862-02
CP	2.2533-02	1.8163+00	1.8513+00	2.9546-02	6.8716-03	1.3257+00	1.3315-01	5.9440-03
P/P01	1.9581-02	9.8660-01	1.0055+00	2.3362-02	1.1138-02	7.2212-01	1.9215-02	1.0638-02
VALVE POS 6 PO -1600.3 Q-1NF = 2.376 P-1NF = .0328 RE = .1635 TO = 1880.								
P	9.3863-02	4.4163+00	1.1513-01	1.1973-01	4.2657-02	7.0879-02	1.2908+00	4.5661-02
CP	2.5716-02	1.8449+00	3.4666-02	3.6604-02	4.1646-03	1.6043-02	5.2949-01	5.4284-03
P/P01	2.1297-02	1.0021+00	2.6122-02	2.7167-02	9.6788-03	1.6082-02	2.9288-01	1.0360-02
VALVE POS 7 PO -1601.1 Q-1NF = 2.377 P-1NF = .0328 RE = .1634 TO = 1881.								
P	1.1788-01	4.4447+00	1.6338-01	4.9255-01	4.3258-02	5.2859-02	2.1298+00	4.1055-02
CP	3.5806-02	1.8562+00	5.4950-02	1.9344-01	4.4108-03	8.4502-03	8.8228-01	3.4839-03
P/P01	2.6736-02	1.0081+00	3.7057-02	1.1172-01	9.8114-03	1.1989-02	4.8307-01	9.3117-03
VALVE POS 8 PO -1601.1 Q-1NF = 2.377 P-1NF = .0328 RE = .1632 TO = 1882.								
P	1.5330-01	4.3954+00	1.7039-01	1.4490+00	4.3258-02	7.6485-02	2.6071+00	3.0901-01
CP	5.1558-02	1.8357+00	5.7908-02	5.9590-01	4.4127-03	1.8394-02	1.0832+00	1.1623-01
P/P01	3.5228-02	9.9703-01	3.8650-02	3.2868-01	9.8124-03	1.7349-02	5.9139-01	7.0095-02
VALVE POS 9 PO -1601.1 Q-1NF = 2.376 P-1NF = .0328 RE = .1629 TO = 1884.								
P	1.7512-01	4.1983+00	2.2365-01	9.5306-02	4.4059-02	6.7875-02	7.0631-02	1.1069+00
CP	5.9910-02	1.7531+00	8.0335-02	2.6321-02	5.7537-03	1.4777-02	1.5937-02	4.5205-01
P/P01	3.9730-02	9.5251-01	5.0741-02	2.1623-02	9.9960-03	1.5400-02	1.6025-02	2.5113-01
VALVE POS 10 PO -1600.8 Q-1NF = 2.376 P-1NF = .0328 RE = .1630 TO = 1883.								
P	1.8833-01	3.8475+00	6.0067-03	3.8790+00	4.5060-02	6.0467-02	5.8626-02	1.7977+00
CP	6.5474-02	1.6055+00	-1.1261-02	1.6188+00	5.1761-03	1.1661-02	1.0886-02	7.4285-01
P/P01	4.2730-02	9.7296-01	1.3628-03	8.8012-01	1.0224-02	1.3720-02	1.3302-02	4.0790-01
VALVE POS 11 PO -1600.8 Q-1NF = 2.376 P-1NF = .0328 RE = .1629 TO = 1884.								
P	1.9073-01	3.3622+00	1.9092+00	3.8970+00	3.1442-02	6.4472-02	6.5429-02	1.8984+00
CP	6.6493-02	1.4015+00	7.8984-01	1.6266+00	-5.5412-04	1.3349-02	1.3752-02	7.8528-01
P/P01	4.3279-02	7.6294-01	4.3323-01	8.8429-01	7.1347-03	1.4630-02	1.4847-02	4.3077-01
VALVE POS 12 PO -1600.8 Q-1NF = 2.376 P-1NF = .0328 RE = .1629 TO = 1884.								
P	2.4336-01	2.1659-01	7.7486-02	9.8109-02	2.2190-01	7.2080-02	6.7430-02	2.8506+00
CP	8.8648-02	7.7380-02	1.8827-02	2.7508-02	7.9613-02	1.6551-02	1.4594-02	1.1861+00
P/P01	5.5223-02	4.9148-02	1.7583-02	2.2262-02	5.0352-02	1.6356-02	1.5301-02	6.4684-01

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RUN	GROUP	PROJECT NO	MACH NO	CONFIGURATION	S-ALPHA	S-ROLL	PSI	ALPHA
25.	304244	10.18	3	-14.98	.03	.01	150.02	
VALVE POS 2	PO = 1606.8	Q-INF = 2.388	P-INF = .0329	RE = .1654	TO = 1872.			
P	1.1668-01	8.8278-01	8.4254-01	1.0732-01	6.4887-02	6.2349-01	3.6216-02	4.4860-02
CP	3.5076-02	3.5592-01	3.3906-01	3.1156-02	1.3386-02	2.4733-01	1.3788-03	4.9988-03
P/P01	2.6344-02	1.9932-01	1.9023-01	2.4231-02	1.4651-02	1.4078-01	8.1772-03	1.0129-02
VALVE POS 3	PO = 1605.8	Q-INF = 2.386	P-INF = .0329	RE = .1652	TO = 1873.			
P	4.5831-02	2.7217+00	2.5231+00	1.1993-01	4.2256-02	1.9125+00	3.6216-02	4.0254-02
CP	5.4194-03	1.1269+00	1.0436+00	3.6476-02	3.9215-03	7.8775-01	1.3900-03	3.0821-03
P/P01	1.0356-02	6.1499-01	5.7010-01	2.7099-02	9.5480-03	4.3214-01	8.1832-03	9.0955-03
VALVE POS 4	PO = 1605.3	Q-INF = 2.385	P-INF = .0329	RE = .1651	TO = 1873.			
P	7.1848-02	4.0386+00	3.9910+00	1.1933-01	4.9866-02	2.5176+00	4.1218-02	4.0654-02
CP	1.6333-02	1.6793+00	1.6594+00	3.6240-02	7.1175-03	1.0417+00	3.4918-03	3.2553-03
P/P01	1.6239-02	9.1262-01	9.0207-01	2.6972-02	1.1271-02	5.6903-01	9.3164-03	9.1889-03
VALVE POS 5	PO = 1605.1	Q-INF = 2.385	P-INF = .0329	RE = .1654	TO = 1871.			
P	9.3462-02	4.3715+00	4.4038+00	1.0612-01	4.6061-02	3.1900+00	3.3815-01	4.4259-02
CP	2.5392-02	1.8188+00	1.8323+00	3.0698-02	5.5212-03	1.3235+00	1.2797-01	4.7656-03
P/P01	2.1124-02	9.8804-01	9.9532-01	2.3984-02	1.0411-02	7.2100-01	7.6428-02	1.0003-02
VALVE POS 6	PO = 1603.8	Q-INF = 2.384	P-INF = .0329	RE = .1653	TO = 1871.			
P	1.0087-01	4.4148+00	1.633-01	1.2674-01	3.8652-02	6.0667-02	1.3388+00	4.2857-02
CP	2.8530-02	1.8384+00	3.5017-02	3.9385-02	2.4276-03	1.1664-02	5.4792-01	4.1921-03
P/P01	2.2816-02	9.9861-01	2.6313-02	2.8668-02	8.7428-03	1.3723-02	3.0284-01	9.6941-03
VALVE POS 7	PO = 1603.3	Q-INF = 2.383	P-INF = .0329	RE = .1654	TO = 1870.			
P	1.2268-01	4.4044+00	1.6899-01	5.1197-01	3.9252-02	5.7464-02	2.9758+00	3.9052-02
CP	3.7693-02	1.8344+00	5.7125-02	2.0103-01	2.6831-03	1.0325-02	8.5729-01	2.5991-03
P/P01	2.7756-02	9.9647-01	3.8233-02	1.1583-01	6.8607-03	1.3001-02	4.6964-01	8.8354-03
VALVE POS 8	PO = 1602.6	Q-INF = 2.382	P-INF = .0328	RE = .1653	TO = 1870.			
P	1.6111-01	4.3715+00	1.7399-01	1.5120+00	3.8852-02	6.0267-02	2.5681+00	2.9299-01
CP	5.3850-02	1.8215+00	5.9260-02	6.2100-01	2.5227-03	1.1514-02	1.0644+00	1.0922-01
P/P01	3.6467-02	9.8951-01	3.9384-02	3.4223-01	8.7943-03	1.3642-02	5.8130-01	6.6320-02
VALVE POS 9	PO = 1602.1	Q-INF = 2.381	P-INF = .0328	RE = .1651	TO = 1871.			
P	1.8232-01	4.1923+00	2.2245-01	8.5695-02	3.9252-02	5.7264-02	6.1627-02	1.1730+00
CP	6.2789-02	1.7471+00	7.9642-02	2.2704-02	2.6978-03	1.0263-02	1.2096-02	4.7887-01
P/P01	4.1286-02	9.4935-01	5.0373-02	1.9406-02	8.8886-03	1.2967-02	1.3955-02	2.6562-01
VALVE POS 10	PO = 1601.3	Q-INF = 2.380	P-INF = .0328	RE = .1652	TO = 1870.			
P	1.9633-01	3.8534+00	6.2069-03	3.8970+00	3.6248-02	6.7273-02	5.5425-02	1.7602+00
CP	6.8703-02	1.6053+00	-1.1181-02	1.6236+00	1.4417-03	1.4478-02	9.4990-03	7.2379-01
P/P01	4.4476-02	8.7293-01	1.4061-03	8.8280-01	8.2115-03	1.5240-02	1.2556-02	3.9875-01
VALVE POS 11	PO = 1600.6	Q-INF = 2.379	P-INF = .0328	RE = .1654	TO = 1868.			
P	2.0614-01	3.4339+00	2.1433+00	3.9060+00	2.7036-02	6.4672-02	6.0627-02	1.9134+00
CP	7.2847-02	1.4294+00	8.8702-01	1.6278+00	-2.4261-03	1.3392-02	1.1692-02	7.9037-01
P/P01	4.6710-02	7.7812-01	4.8568-01	8.8509-01	6.1263-03	1.4655-02	1.3738-02	4.3357-01
VALVE POS 12	PO = 1600.1	Q-INF = 2.378	P-INF = .0328	RE = .1651	TO = 1870.			
P	2.5497-01	2.2780-01	7.4082-02	7.9488-02	1.3859-01	8.0089-02	6.1027-02	2.8641+00
CP	9.3427-02	8.2003-02	1.7363-02	1.9636-02	4.4486-02	1.9889-02	1.1873-02	1.1906+00
P/P01	5.7809-02	5.1646-02	1.6796-02	1.8021-02	3.1419-02	1.8157-02	1.3836-02	6.4933-01

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RUN	GROUP	PROJECT NO	MACH NO	CONFIGURATION	S-ALPHA	S-ROLL	PSI	ALPHA
2.	26.	304244	10.16	3	-19.01	.03	.01	151.99
VALVE POS	2	PO = 1599.0	Q-IMF = 2.377	P-IMF = .0320	RE = .1649	TO = 1070.		
P		1.1828-01	7.9751-01	9.4705-02	5.0678-02	4.3912-01	3.9618-02	4.8064-02
CP		3.5978-02	3.2178-01	2.6060-02	1.0901-02	2.3513-01	2.8818-03	6.4350-03
P/POI		2.6833-02	1.8092-01	2.1485-02	1.3312-02	1.4499-01	8.9876-03	1.0904-02
VALVE POS	3	PO = 1600.1	Q-IMF = 2.379	P-IMF = .0328	RE = .1656	TO = 1068.		
P		4.9433-02	2.5575+00	1.1032-01	4.2056-02	2.9024+00	3.8217-02	4.5060-02
CP		6.9935-03	1.0614+00	3.2592-02	3.8921-03	8.2804-01	2.2781-03	5.1511-03
P/POI		1.1205-02	5.7971-01	5.3686-01	2.5007-02	4.5388-01	8.6626-03	1.0214-02
VALVE POS	4	PO = 1607.8	Q-IMF = 2.391	P-IMF = .0330	RE = .1657	TO = 1065.		
P		6.9847-02	3.9565+00	1.0392-01	5.5274-02	2.3715+00	4.5820-02	4.4660-02
CP		1.5423-02	1.6409+00	2.9671-02	9.3204-03	1.0617+00	5.3748-03	4.8894-03
P/POI		1.5750-02	9.9212-01	2.3432-02	1.2444-02	5.7985-01	1.0332-02	1.0070-02
VALVE POS	5	PO = 1612.1	Q-IMF = 2.398	P-IMF = .0331	RE = .1673	TO = 1064.		
P		8.7658-02	4.3626+00	8.9900-02	5.0067-02	3.3203+00	3.6596-01	4.5260-02
CP		2.2771-02	1.8056+00	2.3705-02	7.0928-03	1.3710+00	1.3884-01	5.0882-03
P/POI		1.9711-02	9.8098-01	2.0215-02	1.1258-02	7.4662-01	8.2292-02	1.0177-02
VALVE POS	6	PO = 1614.9	Q-IMF = 2.401	P-IMF = .0331	RE = .1673	TO = 1066.		
P		9.4263-02	4.4462+00	1.1052-01	4.4259-02	6.2469-02	1.3103+00	4.3858-02
CP		2.5465-08	1.8377+00	3.4571-02	3.2236-02	4.6428-03	1.2226-02	5.3185-01
P/POI		2.1164-02	9.9824-01	2.8073-02	9.9370-03	1.4026-02	2.9419-01	9.8470-03
VALVE POS	7	PO = 1612.9	Q-IMF = 2.399	P-IMF = .0330	RE = .1651	TO = 1078.		
P		1.1648-01	4.4432+00	4.7232-01	4.2657-02	6.2469-02	2.2169+00	4.2657-02
CP		3.4839-02	1.8411+00	5.0375-02	1.8339-01	4.0204-03	9.1170-01	4.0204-03
P/POI		2.6215-02	1.0000+00	3.4699-02	1.8630-01	9.6006-03	1.4060-02	9.6006-03
VALVE POS	8	PO = 1610.9	Q-IMF = 2.392	P-IMF = .0330	RE = .1649	TO = 1078.		
P		1.5070-01	4.4163+00	1.4460+00	4.2457-02	4.6674-02	2.7287+00	3.2563-01
CP		4.9205-02	1.8322+00	4.8898-02	5.9064-01	1.5082-02	1.1268+00	1.2233-01
P/POI		3.3960-02	9.9521-01	3.3795-02	3.2585-01	9.5676-03	1.5025-02	6.1491-01
VALVE POS	9	PO = 1609.3	Q-IMF = 2.389	P-IMF = .0329	RE = .1642	TO = 1081.		
P		1.6071-01	4.2521+00	1.8941-01	8.8298-02	4.1656-02	7.1880-02	1.0378+00
CP		5.3473-02	1.7658+00	6.5486-02	2.3167-02	3.0461-03	1.8296-02	4.2036-01
P/POI		3.6260-02	9.5939-01	4.2736-02	1.9923-02	9.3987-03	1.6218-02	2.3416-01
VALVE POS	10	PO = 1608.3	Q-IMF = 2.388	P-IMF = .0329	RE = .1640	TO = 1082.		
P		1.7332-01	3.9624+00	3.9450+00	3.9252-02	7.3882-02	5.8626-02	1.8894+00
CP		5.8603-02	1.6458+00	-1.1356-02	1.6385+00	2.6523-03	1.7157-02	1.0683-02
P/POI		3.9134-02	8.9469-01	1.3111-03	8.9076-01	8.8629-03	1.6682-02	1.3192-02
VALVE POS	11	PO = 1607.3	Q-IMF = 2.386	P-IMF = .0329	RE = .1637	TO = 1083.		
P		1.6891-01	3.5280+00	2.0548+00	3.1442-02	7.6285-02	6.6630-02	1.9980+00
CP		5.7011-02	1.6649+00	8.4747-01	-6.9337-04	1.8186-02	1.4139-02	8.2409-01
P/POI		3.8167-02	7.9718-01	4.6430-01	9.0090-01	7.1046-03	1.7237-02	1.9056-02
VALVE POS	12	PO = 1606.8	Q-IMF = 2.385	P-IMF = .0329	RE = .1635	TO = 1084.		
P		2.1314-01	1.9657-01	7.4683-02	8.5895-02	1.4079-01	7.4889-02	2.9992+00
CP		7.5588-02	6.8641-02	1.7528-02	2.2230-02	4.5248-02	1.7812-02	1.2439+00
P/POI		4.0101-02	4.4436-02	1.6882-02	1.9417-02	3.1025-02	1.6926-02	6.7799-01

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RUN GROUP PROJECT NO WACH NO CONFIGURATION S-ALPHA S-ROLL PSI ALPHA  
27. 304244 10.18 3 -10.03 .03 .01 154.95

VALVE POS 2	PO = 1604.6	Q-INF = 2.381	P-INF = .0328	RE = .1633	TO = 1884.
P	1.2268-01	6.4057-01	8.6696-02	5.6475-02	6.6894-01
CP	3.7729-02	2.5920-01	2.2617-02	9.9269-03	2.6712-01
P/P01	2.7772-02	1.4501-01	1.9626-02	1.2785-02	1.5143-01
VALVE POS 3	PO = 1602.3	Q-INF = 2.377	P-INF = .0328	RE = .1624	TO = 1888.
P	5.7038-02	2.2544+00	9.5706-02	3.8652-02	2.1432+00
CP	1.0207-02	9.3465-01	8.5698-01	2.6475-02	2.4721-03
P/P01	1.2936-02	5.1128-01	4.6940-01	2.1705-02	8.7457-03
VALVE POS 4	PO = 1600.3	Q-INF = 2.373	P-INF = .0327	RE = .1619	TO = 1890.
P	6.8646-02	3.7877+00	8.6296-02	6.1883-02	2.6928+00
CP	1.5133-02	1.5821+00	2.2570-02	1.2284-02	1.1208+00
P/P01	1.5591-02	8.6028-01	8.4371-01	1.9600-02	1.4055-02
VALVE POS 5	PO = 1598.0	Q-INF = 2.370	P-INF = .0327	RE = .1617	TO = 1890.
P	8.4857-02	4.2595+00	4.4338+00	7.2481-02	3.4701+00
CP	2.2014-02	1.7834+00	1.8557+00	1.6793-02	1.5462-02
P/P01	1.9300-02	9.6882-01	1.0078+00	1.6485-02	1.3073-02
VALVE POS 6	PO = 1596.0	Q-INF = 2.367	P-INF = .0326	RE = .1614	TO = 1890.
P	9.0660-02	4.3849+00	1.0492-01	9.6908-02	5.1469-02
CP	2.4512-02	1.8387+00	3.0535-02	2.7151-02	7.9546-03
P/P01	2.0647-02	9.9861-01	2.3893-02	2.2069-02	1.1721-02
VALVE POS 7	PO = 1594.5	Q-INF = 2.364	P-INF = .0326	RE = .1610	TO = 1892.
P	1.0587-01	4.4133+00	1.2954-01	4.1186-01	4.7063-02
CP	3.0990-02	1.8529+00	4.1003-02	1.6041-01	6.1163-03
P/P01	2.4138-02	1.0062+00	2.9536-02	9.3903-02	1.0730-02
VALVE POS 8	PO = 1594.0	Q-INF = 2.364	P-INF = .0326	RE = .1609	TO = 1892.
P	1.2749-01	4.4073+00	1.1453-01	1.1310+00	4.4660-02
CP	4.0234-02	1.8509+00	3.4667-02	4.6473-01	5.1059-03
P/P01	2.9121-02	1.0052+00	2.6120-02	2.3795-01	1.0186-02
VALVE POS 9	PO = 1597.8	Q-INF = 2.369	P-INF = .0327	RE = .1613	TO = 1892.
P	1.4209-01	4.2834+00	1.5397-01	7.8287-02	4.4660-02
CP	4.6187-02	1.7942+00	5.1200-02	1.9255-02	5.0611-03
P/P01	3.2330-02	9.7460-01	3.5033-02	1.7812-02	1.0161-02
VALVE POS 10	PO = 1602.1	Q-INF = 2.376	P-INF = .0328	RE = .1622	TO = 1889.
P	1.4630-01	4.0505+00	3.2036-03	3.9870+00	4.2657-02
CP	4.7775-02	1.6907+00	-1.2441-02	1.6640+00	4.1619-03
P/P01	3.3187-02	9.1884-01	7.2672-04	9.0444-01	9.6766-03
VALVE POS 11	PO = 1603.8	Q-INF = 2.379	P-INF = .0328	RE = .1626	TO = 1888.
P	1.2708-01	3.6982+00	1.8176+00	4.0800+00	3.4446-02
CP	3.9625-02	1.5406+00	7.5017-01	1.7010+00	6.8916-04
P/P01	2.8794-02	8.3790-01	4.1183-01	9.2441-01	7.8045-03
VALVE POS 12	PO = 1604.8	Q-INF = 2.381	P-INF = .0328	RE = .1627	TO = 1888.
P	1.6211-01	1.5574-01	7.1079-02	8.5495-02	1.4419-01
CP	5.4303-02	5.1627-02	1.6067-02	2.2122-02	4.6777-02
P/P01	3.6706-02	3.5264-02	1.6094-02	1.9358-02	3.2649-02



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ITEM	GROUP	PROJECT NO	MACH NO	CONFIGURATION	3-ALPHA	3-ROLL	PSI	ALPHA
2.	28.	304244	10-18	3	-4.90	.03	.00	160.02
VALVE POS 2	PO = 1607.8	Q-IMF = 2.386	P-IMF = .0329	RE = .1633	TO = 1886.			
P	1.2929-01	4.6041-01	4.4930-01	6.7075-02	4.7864-02	7.0972-01	4.2819-02	5.3071-02
CP	4.0402-02	1.7919-01	1.7453-01	1.4326-02	6.2739-03	2.8330-01	4.1394-03	8.4564-03
P/P01	2.9213-02	1.0403-01	1.0152-01	1.5154-02	1.0015-02	1.6015-01	9.6751-03	1.1992-02
VALVE POS 3	PO = 1609.8	Q-IMF = 2.389	P-IMF = .0329	RE = .1633	TO = 1886.			
P	5.6438-02	1.8140+00	1.5820+00	6.7775-02	3.5848-02	2.2974+00	4.1018-02	5.0868-02
CP	9.8379-03	7.4558-01	6.4846-01	1.4542-02	1.2186-03	9.4795-01	3.3830-03	7.5043-03
P/P01	1.2736-02	4.0936-01	3.5700-01	1.5772-02	8.0897-03	5.1845-01	9.2365-03	1.1479-02
VALVE POS 4	PO = 1608.6	Q-IMF = 2.387	P-IMF = .0329	RE = .1634	TO = 1886.			
P	6.3642-02	3.4458+00	3.3471+00	5.7464-02	5.7677-02	2.5910+00	6.0827-02	4.9466-02
CP	1.2875-02	1.4298+00	1.3685+00	1.0286-02	1.0376-02	1.2053+00	1.1695-02	6.9357-03
P/P01	1.4373-02	7.7823-01	7.5593-01	1.2978-02	1.3026-02	8.5720-01	1.3736-02	1.1172-02
VALVE POS 5	PO = 1606.1	Q-IMF = 2.383	P-IMF = .0329	RE = .1628	TO = 1888.			
P	7.2048-02	4.0505+00	4.3767+00	6.6452-02	5.4272-02	3.7352+00	4.7101-01	4.8264-02
CP	1.6450-02	1.6862+00	1.8231+00	5.7075-03	8.9899-03	1.5339+00	1.8390-01	6.4684-03
P/P01	1.6301-02	9.1642-01	9.9023-01	1.0510-02	1.2279-02	8.4508-01	1.0657-01	1.0920-02
VALVE POS 6	PO = 1604.8	Q-IMF = 2.381	P-IMF = .0328	RE = .1627	TO = 1888.			
P	7.7652-02	4.2476+00	1.0031-01	6.5072-02	4.6262-02	1.44877-01	1.4495+00	4.4059-02
CP	1.8828-02	1.7703+00	2.8346-02	1.3544-02	5.6431-03	4.8698-02	6.7907-01	4.7178-03
P/P01	1.7583-02	9.6177-01	2.2713-02	1.4734-02	1.0475-02	3.3685-02	3.7350-01	9.9762-03
VALVE POS 7	PO = 1602.8	Q-IMF = 2.377	P-IMF = .0328	RE = .1621	TO = 1890.			
P	9.1861-02	4.3566+00	9.3504-02	3.2276-01	4.7263-02	8.6696-02	2.7812+00	6.0080-02
CP	2.4853-02	1.8188+00	2.5544-02	1.2198-01	6.0929-03	2.2681-02	1.1562+00	1.1485-02
P/P01	2.0831-02	9.8790-01	2.1203-02	7.3189-02	1.0717-02	1.9659-02	6.3067-01	1.3824-02
VALVE POS 8	PO = 1601.1	Q-IMF = 2.374	P-IMF = .0327	RE = .1616	TO = 1892.			
P	1.0047-01	4.4178+00	7.6685-02	1.1790+00	4.6262-02	9.3904-02	3.2871+00	4.4900-01
CP	2.8529-02	1.8470+00	1.8512-02	4.8282-01	5.8973-03	2.3765-02	1.3708+00	1.7534-01
P/P01	2.2812-02	1.0031+00	1.7412-02	2.6770-01	1.0504-02	2.1322-02	7.4635-01	1.0195-01
VALVE POS 9	PO = 1599.8	Q-IMF = 2.372	P-IMF = .0327	RE = .1614	TO = 1893.			
P	9.9066-02	4.4581+00	1.0392-01	7.4483-02	4.6061-02	9.7108-02	7.1232-02	1.7527+00
CP	2.7977-02	1.8657+00	3.0021-02	1.7613-02	5.6303-03	2.7151-02	1.6242-02	7.2513-01
P/P01	2.2514-02	1.0131+00	2.3616-02	1.6927-02	1.0468-02	2.2069-02	1.6188-02	3.9832-01
VALVE POS 10	PO = 1601.1	Q-IMF = 2.374	P-IMF = .0327	RE = .1616	TO = 1892.			
P	9.3462-02	4.2133+00	6.0067-03	4.0050+00	4.3658-02	1.3835-01	6.3428-02	2.5382+00
CP	2.5579-02	1.7609+00	-1.1259-02	1.6732+00	4.6007-03	4.4488-02	1.2928-02	1.0553+00
P/P01	2.1221-02	9.5665-01	1.3639-03	9.0936-01	9.9129-03	3.1414-02	1.4402-02	9.7631-01
VALVE POS 11	PO = 1601.6	Q-IMF = 2.375	P-IMF = .0328	RE = .1617	TO = 1892.			
P	8.1855-02	3.9878+00	1.4754+00	4.2240+00	3.0441-02	1.0271-01	6.8030-02	2.5081+00
CP	2.0673-02	1.6651+00	6.0738-01	1.7646+00	-9.7280-04	2.9455-02	1.4853-02	1.0422+00
P/P01	1.8577-02	9.0503-01	3.3489-01	9.5863-01	6.9085-03	2.3311-02	1.5434-02	5.6922-01
VALVE POS 12	PO = 1602.3	Q-IMF = 2.376	P-IMF = .0328	RE = .1618	TO = 1892.			
P	1.0647-01	1.1690-01	6.8276-02	9.1101-02	1.5160-01	1.3335-01	7.0631-02	3.5579+00
CP	3.1023-02	3.5414-02	1.4947-02	2.4554-02	5.0018-02	4.2339-02	1.5939-02	1.4837+00
P/P01	2.4158-02	2.8923-02	1.3490-02	2.8482-02	3.3799-02	3.0924-02	1.6023-02	8.0722-01

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RUN	GROUP	PROJECT NO	MACH NO	CONFIGURATION	S-ALPHA	S-ROLL	PSI	ALPHA
2.	29.	30424	10.18	3	-.97	.03	.01	164.03
VALVE POS 2	PO = 1602.1	Q-IMF = 2.375	P-IMF = .0327	RE = .1614	TO = 1894.			
P	1.3229-01	3.6472-01	3.6000-01	5.7464-02	4.7864-02	7.2761-01	4.5820-02	5.0668-02
CP	4.1909-02	1.3977-01	1.3778-01	1.0406-02	6.3637-03	2.9256-01	5.5034-03	7.5442-03
P/POI	3.0024-02	6.2777-02	6.1705-02	1.3042-02	1.0863-02	1.6514-01	1.0399-02	1.1499-02
VALVE POS 3	PO = 1601.3	Q-IMF = 2.375	P-IMF = .0328	RE = .1623	TO = 1888.			
P	5.0634-02	1.5199+00	1.3944+00	5.5261-02	3.9453-02	2.3873+00	4.0218-02	5.0267-02
CP	7.5265-03	6.2603-01	5.7320-01	9.4746-03	2.8196-03	9.9118-01	3.1417-03	7.3721-03
P/POI	1.1490-02	3.4491-01	3.1643-01	1.2541-02	6.9531-03	5.4175-01	9.1267-03	1.1407-02
VALVE POS 4	PO = 1600.6	Q-IMF = 2.374	P-IMF = .0327	RE = .1622	TO = 1888.			
P	5.9840-02	3.1502+00	3.1370+00	4.5651-02	5.3872-02	3.0223+00	6.8831-02	4.8465-02
CP	1.1414-02	1.3130+00	1.3074+00	5.4379-03	6.9004-03	1.2591+00	1.5201-02	6.6230-03
P/POI	1.3586-02	7.1523-01	7.1222-01	1.0365-02	1.2231-02	6.8618-01	1.5627-02	1.1003-02
VALVE POS 5	PO = 1600.1	Q-IMF = 2.374	P-IMF = .0327	RE = .1623	TO = 1887.			
P	7.0647-02	3.8564+00	4.2161+00	3.5840-02	4.9666-02	3.8894+00	5.2203-01	4.9266-02
CP	1.5972-02	1.6108+00	1.7623+00	1.3090-03	7.1335-03	1.6247+00	2.0612-01	6.9647-03
P/POI	1.6043-02	8.7576-01	9.5744-01	6.1389-03	1.1279-02	6.8325-01	1.1855-01	1.1188-02
VALVE POS 6	PO = 1599.5	Q-IMF = 2.373	P-IMF = .0327	RE = .1621	TO = 1888.			
P	7.1448-02	4.0834+00	6.9099-02	5.3459-02	4.9065-02	1.3235-01	1.9092+00	4.2256-02
CP	1.6322-02	1.7071+00	2.3761-02	6.7409-03	6.8891-03	4.1987-02	7.9082-01	4.0195-03
P/POI	1.6232-02	9.2768-01	2.0242-02	1.2145-02	1.1147-02	3.0067-02	4.3374-01	9.6000-03
VALVE POS 7	PO = 1599.5	Q-IMF = 2.373	P-IMF = .0327	RE = .1620	TO = 1889.			
P	7.5851-02	4.1953+00	7.0478-02	2.6529-01	4.9466-02	1.0532-01	3.0109+00	6.7690-02
CP	1.8181-02	1.7545+00	1.5916-02	9.8028-02	7.0601-03	3.0600-02	1.2552+00	1.4741-02
P/POI	1.7234-02	9.5321-01	1.6013-02	6.0277-02	1.1239-02	2.3929-02	6.8409-01	1.5380-02
VALVE POS 8	PO = 1598.8	Q-IMF = 2.372	P-IMF = .0327	RE = .1620	TO = 1888.			
P	7.2248-02	4.2700+00	5.8865-02	8.7600-01	4.7463-02	1.2274-01	3.5197+00	5.0127-01
CP	1.6674-02	1.7866+00	1.1031-02	3.5557-01	6.2234-03	3.7961-02	1.4703+00	1.9757-01
P/POI	1.6422-02	9.7054-01	1.3380-02	1.9911-01	1.0788-02	2.7897-02	8.0000-01	1.1393-01
VALVE POS 9	PO = 1598.5	Q-IMF = 2.371	P-IMF = .0327	RE = .1615	TO = 1891.			
P	6.7445-02	4.4327+00	8.0489-02	7.2681-02	4.6662-02	1.2794-01	6.1636-02	1.7317+00
CP	1.4662-02	1.8961+00	2.0165-02	1.6871-02	5.8950-03	4.0182-02	2.0648-02	7.1670-01
P/POI	1.5337-02	1.0060+00	1.8303-02	1.6527-02	1.0611-02	2.9094-02	1.8564-02	3.9377-01
VALVE POS 10	PO = 1598.8	Q-IMF = 2.372	P-IMF = .0327	RE = .1617	TO = 1891.			
P	6.3843-02	4.3626+00	5.4060-03	3.9960+00	4.4640-02	1.3435-01	6.3828-02	2.8250+00
CP	1.3121-02	1.8250+00	-1.1510-02	1.6705+00	5.8353-03	4.2846-02	1.3115-02	1.1770+00
P/POI	1.4506-02	9.9124-01	1.2283-03	9.0795-01	1.0147-02	3.0926-02	1.4503-02	6.4189-01
VALVE POS 11	PO = 1601.1	Q-IMF = 2.375	P-IMF = .0327	RE = .1620	TO = 1890.			
P	5.6237-02	4.1028+00	1.2938+00	4.3200+00	3.2443-02	8.8699-02	6.3228-02	2.7424+00
CP	9.8943-03	1.7140+00	5.3107-01	1.8855+00	-1.2610-04	2.3964-02	1.2838-02	1.1411+00
P/POI	1.2767-02	9.3138-01	2.9371-01	9.8070-01	7.3650-03	2.0136-02	1.4354-02	6.2257-01
VALVE POS 12	PO = 1601.8	Q-IMF = 2.376	P-IMF = .0328	RE = .1622	TO = 1889.			
P	8.5657-02	8.2676-02	6.3270-02	6.9477-02	1.5761-01	7.4882-02	6.0027-02	3.8088+00
CP	2.2263-02	2.1428-02	1.2840-02	1.5453-02	5.2546-01	1.7728-01	1.1475-02	1.5892+00
P/POI	1.7934-02	1.9964-02	1.6358-02	1.2763-02	2.3759-02	1.6990-02	1.3419-02	8.6414-01

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RUN	GROUP	PROJECT NO	MACH NO	CONFIGURATION	S-ALPHA	S-ROLL	PSI	ALPHA
2.	30.	304244	10.18	3	4.44	.02	-.00	169.99
<p>VALVE POS 2 PD = 1601.8 Q-INF = 2.376 P-INF = .0328 RE = .1625 TO = 1887.</p> <p>P 1.3489-01 2.2420-01 2.2505-01 4.1246-02 3.8251-02 7.5864-01 3.7417-02 4.1255-02 .0000+00</p> <p>CP 4.2972-02 8.0552-02 8.0910-02 3.5672-03 2.3070-03 3.0544-01 1.9559-03 3.5710-03 .0000+00</p> <p>P/P01 3.0598-02 5.0857-02 5.1050-02 9.3561-03 8.6768-03 1.7209-01 8.6875-03 9.3582-03 .0000+00</p>								
<p>VALVE POS 3 PD = 1601.3 Q-INF = 2.375 P-INF = .0328 RE = .1623 TO = 1888.</p> <p>P 4.9433-02 1.1955+00 1.0606+00 4.3048-02 3.6248-02 2.4681+00 3.0614-02 4.3057-02 .0000+00</p> <p>CP 7.0210-03 4.8946-01 4.3268-01 4.3331-03 1.4707-03 1.0252+00 9.0137-04 4.3371-03 .0000+00</p> <p>P/P01 1.1218-02 2.7129-01 2.4068-01 9.7689-03 8.2259-03 5.6010-01 6.9472-03 9.7711-03 .0000+00</p>								
<p>VALVE POS 4 PD = 1600.8 Q-INF = 2.375 P-INF = .0327 RE = .1624 TO = 1887.</p> <p>P 5.9440-02 2.8651+00 2.8773+00 4.0845-02 4.6262-02 3.1825+00 8.6038-02 4.3858-02 .0000+00</p> <p>CP 1.1239-02 1.1926+00 1.1977+00 3.4095-03 5.6901-03 1.3262+00 2.2438-02 4.6782-03 .0000+00</p> <p>P/P01 1.3492-02 6.5032-01 6.5310-01 9.2712-03 1.0501-02 7.2238-01 1.9529-02 9.9551-03 .0000+00</p>								
<p>VALVE POS 5 PD = 1600.3 Q-INF = 2.374 P-INF = .0327 RE = .1624 TO = 1887.</p> <p>P 6.2241-02 3.9400+00 4.1036+00 2.9433-02 4.8064-02 4.0826+00 5.9907-01 4.3057-02 .0000+00</p> <p>CP 1.2427-02 1.5168+00 1.7146+00 -1.3920-03 6.4554-03 1.7058+00 2.3853-01 4.3466-03 .0000+00</p> <p>P/P01 1.4132-02 8.2511-01 9.3173-01 6.6828-03 1.0913-02 9.2698-01 1.3602-01 9.7764-03 .0000+00</p>								
<p>VALVE POS 6 PD = 1599.8 Q-INF = 2.373 P-INF = .0327 RE = .1621 TO = 1888.</p> <p>P 6.0440-02 3.9400+00 7.6485-02 3.8843-02 4.5861-02 7.5083-02 2.1689+00 3.1842-02 .0000+00</p> <p>CP 1.1679-02 1.6464+00 1.8440-02 2.5785-03 5.3356-03 1.7849-02 9.0010-01 -3.7141-04 .0000+00</p> <p>P/P01 1.3729-02 8.9497-01 1.7373-02 8.8232-03 1.0417-02 1.7055-02 4.9265-01 7.2330-03 .0000+00</p>								
<p>VALVE POS 7 PD = 1599.0 Q-INF = 2.373 P-INF = .0327 RE = .1627 TO = 1884.</p> <p>P 5.7238-02 4.0341+00 5.5061-02 2.0222-01 4.4059-02 7.6287-02 3.3336+00 8.1308-02 .0000+00</p> <p>CP 1.0331-02 1.6861+00 9.4134-03 7.1427-02 4.7771-03 1.8357-02 1.3910+00 2.0474-02 .0000+00</p> <p>P/P01 1.3003-02 9.1642-01 1.2508-02 4.5939-02 1.0009-02 1.7329-02 7.5728-01 1.8471-02 .0000+00</p>								
<p>VALVE POS 8 PD = 1598.5 Q-INF = 2.371 P-INF = .0327 RE = .1619 TO = 1889.</p> <p>P 4.9433-02 4.1744+00 4.2848-02 1.0041+00 4.2256-02 6.6274-02 3.8289+00 5.7997-01 .0000+00</p> <p>CP 7.0594-03 1.7468+00 4.2820-03 4.0970-01 4.0326-03 1.4162-02 1.6010+00 2.3081-01 .0000+00</p> <p>P/P01 1.1239-02 9.4906-01 9.7415-03 2.2829-01 9.6071-03 1.5067-02 8.7051-01 1.3186-01 .0000+00</p>								
<p>VALVE POS 9 PD = 1597.8 Q-INF = 2.370 P-INF = .0327 RE = .1619 TO = 1888.</p> <p>P 4.4029-02 4.2804+00 5.3059-02 8.4694-02 4.3658-02 1.3996-01 1.3166-01 2.0471+00 .0000+00</p> <p>CP 4.7872-03 1.7922+00 8.5969-03 2.1944-02 4.6306-03 4.5259-02 4.1759-02 8.4988-01 .0000+00</p> <p>P/P01 1.0014-02 9.7353-01 1.2068-02 1.9263-02 9.9295-03 3.1831-02 2.9944-02 4.6558-01 .0000+00</p>								
<p>VALVE POS 10 PD = 1597.0 Q-INF = 2.369 P-INF = .0327 RE = .1619 TO = 1888.</p> <p>P 3.6424-02 4.3327+00 5.4060-03 3.9040+00 4.0454-02 1.2494-01 6.3428-02 3.2020+00 .0000+00</p> <p>CP 1.5859-03 1.8151+00 -1.1507-02 1.6362+00 3.2868-03 3.8780-02 1.2984-02 1.3378+00 .0000+00</p> <p>P/P01 8.2082-03 9.8589-01 1.2301-03 8.8948-01 9.2052-03 2.8938-02 1.4433-02 7.2861-01 .0000+00</p>								
<p>VALVE POS 11 PD = 1596.8 Q-INF = 2.369 P-INF = .0327 RE = .1618 TO = 1888.</p> <p>P 3.0420-02 4.2939+00 9.7969-01 4.2690+00 2.9640-02 1.1833-01 6.3628-02 3.0248+00 .0000+00</p> <p>CP -9.4646-04 1.7990+00 3.9981-01 1.7885+00 -1.2761-03 3.6168-02 1.3073-02 1.2632+00 .0000+00</p> <p>P/P01 6.9231-03 9.7721-01 2.2296-01 9.7155-01 6.7435-03 2.6930-02 1.4481-02 6.8839-01 .0000+00</p>								
<p>VALVE POS 12 PD = 1597.6 Q-INF = 2.370 P-INF = .0327 RE = .1621 TO = 1887.</p> <p>P 4.6631-02 7.8470-02 1.0071-01 8.7898-02 1.6482-01 1.2574-01 6.3828-02 4.0716+00 .0000+00</p> <p>CP 5.8828-03 1.9314-02 2.8698-02 2.3292-02 5.5742-02 3.9272-02 1.3138-02 1.7039+00 .0000+00</p> <p>P/P01 1.0603-02 1.7845-02 2.2903-02 1.9989-02 3.7483-02 2.8595-02 1.4516-02 9.2594-01 .0000+00</p>								

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RUN GROUP PROJECT NO MACH NO CONFIGURATION S-ALPHA S-ROLL PSI ALPHA  
2. 31. 304244 10.18 3 10.08 .02 -.00 175.08

VALVE POS	P	PO	Q	Q-IMF	Q-IMF = 2.370	P-IMF	P-IMF = .0327	RE	RE = .1623	TO	TO = 1886.
P	1.7151-01	1.6214-01	1.6178-01	4.7052-02	4.8865-02	7.7907-01	4.8021-02	5.2470-02	4.8021-02	4.8021-02	.0000+00
CP	5.8559-02	5.4606-02	5.4453-02	6.0584-03	6.8231-03	3.1483-01	6.4672-03	8.3437-03	6.4672-03	6.4672-03	.0000+00
P/PO1	3.9001-02	3.6871-02	3.6788-02	1.0644-02	1.1112-02	1.7715-01	1.0920-02	1.1931-02	1.7715-01	1.0920-02	.0000+00
VALVE POS 3	PO = 1597.5	Q-IMF = 2.370	P-IMF = .0327	RE = .1622	TO = 1886.						
P	6.4643-02	9.3763-01	8.2792-01	4.6051-02	4.5260-02	2.3139+00	3.1614-02	4.4860-02	2.3139+00	3.1614-02	.0000+00
CP	1.3483-02	3.8178-01	3.3550-01	5.6392-03	5.3056-03	9.6240-01	-4.5160-04	5.1366-03	9.6240-01	-4.5160-04	.0000+00
P/PO1	1.4702-02	2.1325-01	1.8829-01	1.0473-02	1.0294-02	5.2625-01	7.1900-03	1.0202-02	5.2625-01	7.1900-03	.0000+00
VALVE POS 4	PO = 1597.0	Q-IMF = 2.370	P-IMF = .0327	RE = .1623	TO = 1885.						
P	5.7438-02	2.5486+00	2.6131+00	4.7853-02	5.6676-02	3.2619+00	1.0405-01	4.6462-02	3.2619+00	1.0405-01	.0000+00
CP	1.0448-02	1.0616+00	1.0889+00	6.4031-03	1.0127-02	1.3627+00	3.0116-02	5.8166-03	1.3627+00	3.0116-02	.0000+00
P/PO1	1.3066-02	5.7975-01	5.9444-01	1.0886-02	1.2893-02	7.4202-01	2.3668-02	1.0569-02	1.0886-02	2.3668-02	.0000+00
VALVE POS 5	PO = 1596.3	Q-IMF = 2.368	P-IMF = .0327	RE = .1621	TO = 1886.						
P	5.3437-02	3.3787+00	3.8949+00	4.5851-02	5.3872-02	4.1500+00	6.7430-01	4.6462-02	4.1500+00	6.7430-01	.0000+00
CP	9.6174-03	1.4128+00	1.6307+00	5.5700-03	8.9566-03	1.7384+00	2.7091-01	5.8280-03	1.7384+00	2.7091-01	.0000+00
P/PO1	1.2618-02	7.6902-01	8.8653-01	1.0436-02	1.2262-02	9.4459-01	1.5348-01	1.0575-02	9.4459-01	1.5348-01	.0000+00
VALVE POS 6	PO = 1596.5	Q-IMF = 2.369	P-IMF = .0327	RE = .1624	TO = 1884.						
P	5.2635-02	3.6967+00	6.7675-02	3.3737-02	5.0467-02	1.0952-01	2.3895+00	3.1041-02	1.0952-01	2.3895+00	.0000+00
CP	8.4262-03	1.5464+00	1.4774-02	2.3895-04	7.5113-03	3.2436-02	9.9473-01	-6.8771-04	3.2436-02	9.9473-01	.0000+00
P/PO1	1.1976-02	8.4111-01	1.5398-02	7.5624-03	1.1483-02	2.4920-02	5.4368-01	7.0629-03	1.1483-02	2.4920-02	.0000+00
VALVE POS 7	PO = 1596.8	Q-IMF = 2.370	P-IMF = .0327	RE = .1625	TO = 1884.						
P	5.1234-02	3.8430+00	5.8265-02	1.5237-01	4.9466-02	1.1553-01	3.5332+00	1.0053-01	1.1553-01	3.5332+00	.0000+00
CP	7.8315-03	1.6079+00	1.0798-02	5.0510-02	7.0853-03	3.4963-02	1.4772+00	2.8636-02	3.4963-02	1.4772+00	.0000+00
P/PO1	1.1655-02	8.7426-01	1.3255-02	3.4663-02	1.1253-02	2.6282-02	8.0370-01	2.2871-02	1.1253-02	2.6282-02	.0000+00
VALVE POS 8	PO = 1596.8	Q-IMF = 2.370	P-IMF = .0327	RE = .1626	TO = 1883.						
P	5.0233-02	3.9699+00	5.2659-02	8.5956-01	4.9666-02	1.0632-01	4.0375+00	6.7130-01	1.0632-01	4.0375+00	.0000+00
CP	7.4070-03	1.6613+00	8.4302-03	3.4890-01	7.1676-03	3.1072-02	1.6899+00	2.6947-01	3.1072-02	1.6899+00	.0000+00
P/PO1	1.1427-02	9.0304-01	1.1978-02	1.9552-01	1.1298-02	2.4184-02	9.1842-01	1.5270-01	1.9552-01	1.1298-02	.0000+00
VALVE POS 9	PO = 1596.5	Q-IMF = 2.370	P-IMF = .0327	RE = .1626	TO = 1883.						
P	4.9433-02	4.2551+00	4.5051-02	8.4694-02	4.9266-02	1.1893-01	8.0236-02	2.2633+00	1.1893-01	8.0236-02	.0000+00
CP	7.0725-03	1.7819+00	5.4763-03	2.1953-02	7.0019-03	3.6403-02	2.0072-02	9.4138-01	3.6403-02	2.0072-02	.0000+00
P/PO1	1.1246-02	9.6806-01	1.0386-02	1.9289-02	1.1208-02	2.7058-02	1.8254-02	5.1493-01	1.1208-02	2.7058-02	.0000+00
VALVE POS 10	PO = 1596.3	Q-IMF = 2.369	P-IMF = .0327	RE = .1623	TO = 1885.						
P	4.8632-02	4.3402+00	3.4038-03	3.8430+00	4.8266-02	1.0151-01	5.8226-02	3.4829+00	1.0151-01	5.8226-02	.0000+00
CP	6.7422-03	1.8185+00	-1.2352-02	1.6086+00	6.5868-03	2.9067-02	1.0792-02	1.4566+00	2.9067-02	1.0792-02	.0000+00
P/PO1	1.1068-02	9.8777-01	7.7466-04	8.7462-01	1.0984-02	2.3103-02	1.3252-02	7.9266-01	1.0984-02	2.3103-02	.0000+00
VALVE POS 11	PO = 1595.5	Q-IMF = 2.368	P-IMF = .0327	RE = .1627	TO = 1882.						
P	4.4229-02	4.3357+00	7.8968-01	4.2540+00	3.5047-02	9.8509-02	6.2828-02	3.2411+00	3.5047-02	9.8509-02	.0000+00
CP	4.8864-03	1.8169+00	3.1965-01	1.7824+00	1.0090-03	2.7808-02	1.2739-02	1.3547+00	1.0090-03	2.7808-02	.0000+00
P/PO1	1.0068-02	9.8694-01	1.7976-01	9.6834-01	7.9777-03	2.2424-02	1.4302-02	7.3776-01	7.9777-03	2.2424-02	.0000+00
VALVE POS 12	PO = 1595.0	Q-IMF = 2.368	P-IMF = .0327	RE = .1629	TO = 1880.						
P	3.6624-02	6.4858-02	8.6496-02	8.1290-02	2.0567-01	1.1092-01	6.3028-02	4.2834+00	1.1092-01	6.3028-02	.0000+00
CP	1.6768-03	1.3599-02	2.2737-02	2.0539-02	7.3059-02	3.3052-02	1.2827-02	1.7950+00	3.3052-02	1.2827-02	.0000+00
P/PO1	8.3379-03	1.4765-02	1.9692-02	1.6506-02	4.6824-02	2.5253-02	1.4349-02	9.7515-01	1.6506-02	4.6824-02	.0000+00

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RUN	GROUP	PROJECT NO	MACH NO	CONFIGURATION	S-ALPHA	S-ROLL	PSI	ALPHA
2.	32.	304244	10.18	3	14.45	.02	-.00	179.45
VALVE POS	2	PO =1593.8	Q-INF = 2.367	P-INF = .0326	RE = .1631	TO = 1878.		
P		1.5590-01	1.1931-01	4.7853-02	4.8665-02	7.7766-01	4.4020-02	4.8264-02
CP		5.2086-02	3.6622-02	6.4303-03	6.7733-03	3.1480-01	4.8103-03	6.6041-03
P/PO1		3.5314-02	2.7177-02	1.0901-02	1.1086-02	1.7715-01	1.0028-02	1.0994-02
VALVE POS	3	PO =1593.0	Q-INF = 2.365	P-INF = .0326	RE = .1627	TO = 1880.		
P		6.2241-02	7.9351-01	4.9855-02	4.8465-02	2.3229+00	2.9213-02	4.6462-02
CP		1.2528-02	3.2173-01	7.2908-03	6.7027-03	9.6839-01	1.4374-03	5.8559-03
P/PO1		1.4188-02	1.8088-01	1.1365-02	1.1048-02	5.2950-01	6.6591-03	1.0591-02
VALVE POS	4	PO =1591.8	Q-INF = 2.363	P-INF = .0326	RE = .1623	TO = 1882.		
P		5.5037-02	2.3843+00	5.3259-02	5.4473-02	3.2604+00	1.2746-01	4.9866-02
CP		9.5050-03	9.9539-01	8.7527-03	9.2663-03	1.3662+00	4.0157-02	7.3167-03
P/PO1		1.2558-02	5.4405-01	1.2153-02	1.2429-02	7.4393-01	2.9083-02	1.1378-02
VALVE POS	5	PO =1591.3	Q-INF = 2.362	P-INF = .0326	RE = .1621	TO = 1883.		
P		5.4436-02	3.1711+00	5.2058-02	5.3071-02	4.1500+00	7.7633-01	4.8264-02
CP		9.2606-03	1.3290+00	8.2535-03	8.6824-03	1.7435+00	3.1494-01	6.6472-03
P/PO1		1.2426-02	7.2388-01	1.1883-02	1.2115-02	9.4733-01	1.7722-01	1.1017-02
VALVE POS	6	PO =1591.0	Q-INF = 2.362	P-INF = .0326	RE = .1622	TO = 1882.		
P		5.2835-02	3.4623+00	3.3838-02	5.0067-02	1.0311-01	2.4523+00	3.2644-02
CP		8.5839-03	1.4523+00	5.3914-04	7.4115-03	2.9875-02	1.0248+00	3.3505-05
P/PO1		1.2062-02	7.9039-01	1.6821-02	7.7247-03	1.1430-02	2.3540-02	5.5988-01
VALVE POS	7	PO =1588.7	Q-INF = 2.358	P-INF = .0325	RE = .1618	TO = 1883.		
P		5.4236-02	3.6190+00	1.3055-01	5.1669-02	7.7286-02	3.7088+00	1.3778-01
CP		9.2124-03	1.5211+00	4.1576-02	8.1236-03	1.8988-02	1.5592+00	4.4646-02
P/PO1		1.2400-02	8.2745-01	1.3917-02	2.9848-02	1.1813-02	1.7670-02	3.1503-02
VALVE POS	8	PO =1588.2	Q-INF = 2.357	P-INF = .0325	RE = .1614	TO = 1885.		
P		5.4837-02	3.7415+00	7.6105-01	5.1068-02	8.4294-02	4.1426+00	8.0387-01
CP		9.4794-03	1.5739+00	1.1699-02	3.0915-01	7.8803-03	2.1979-02	1.7441+00
P/PO1		1.2544-02	8.5588-01	1.3741-02	1.7409-01	1.1682-02	1.9283-02	9.4764-01
VALVE POS	9	PO =1586.0	Q-INF = 2.353	P-INF = .0325	RE = .1612	TO = 1885.		
P		5.5037-02	4.0684+00	4.2247-02	7.7686-02	9.1301-02	7.4033-02	2.5532+00
CP		9.5978-03	1.7151+00	4.1627-03	1.9223-02	7.7411-03	2.5009-02	1.0712+00
P/PO1		1.2608-02	9.3202-01	9.6782-03	1.7797-02	1.1607-02	2.0916-02	5.8490-01
VALVE POS	10	PO =1585.0	Q-INF = 2.352	P-INF = .0324	RE = .1611	TO = 1885.		
P		5.3836-02	4.2834+00	4.6051-03	4.8865-02	1.3493-01	6.5029-02	3.7096+00
CP		9.1021-03	1.8076+00	-1.1832-02	1.5234+00	6.9884-03	4.3594-02	1.3862-02
P/PO1		1.2341-02	9.8190-01	1.0556-03	8.2868-01	1.1202-02	3.0935-02	1.4907-02
VALVE POS	11	PO =1584.5	Q-INF = 2.351	P-INF = .0324	RE = .1610	TO = 1885.		
P		5.3436-02	4.3805+00	6.6754-01	4.1160+00	3.5447-02	1.1853-01	6.7830-02
CP		8.9391-03	1.8495+00	2.7016-01	1.7770+00	1.2876-03	3.6628-02	1.5062-02
P/PO1		1.2253-02	1.0045+00	1.5307-01	9.4383-01	8.1283-03	2.7180-02	1.5534-02
VALVE POS	12	PO =1584.2	Q-INF = 2.351	P-INF = .0324	RE = .1612	TO = 1884.		
P		3.5424-02	6.8461-02	8.6296-02	8.4594-02	1.8845-01	1.2314-01	6.8230-02
CP		1.2783-03	1.5332-02	2.2919-02	2.2152-02	6.6374-02	3.8590-02	1.5234-02
P/PO1		8.1234-03	1.3700-02	1.9789-02	1.9376-02	4.3216-02	2.8238-02	1.5647-02

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APPENDIX B

PLOTTED DATA

~~CONFIDENTIAL~~



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PLOTTED DATA INDEX

	Page
Command Module . . . . .	B-3
Launch Escape Vehicle . . . . .	B-39
Command Module With Service Module . . . . .	B-51

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COMMAND MODULE PLOTTED DATA

M = 10.0,  $\alpha$  = 0 to 180 Degrees

~~CONFIDENTIAL~~



~~CONFIDENTIAL~~

PRESSURE DISTRIBUTION TEST

APOLLO PS-3

A.E.D.C. TUNNEL C

CONFIGURATION C2

GROUP NUMBER 8.

TOTAL PRESSURE 1582.3 PSIA

TOTAL TEMPERATURE 1897.0 DEGREES RANKINE

REYNOLDS NUMBER PER INCH  $0.1590 \times 10^{-6}$

ANGLE OF ATTACK 0.01 DEGREES

MACH NO. , 10.18

RAY SYMBOL

0 - 9 \*

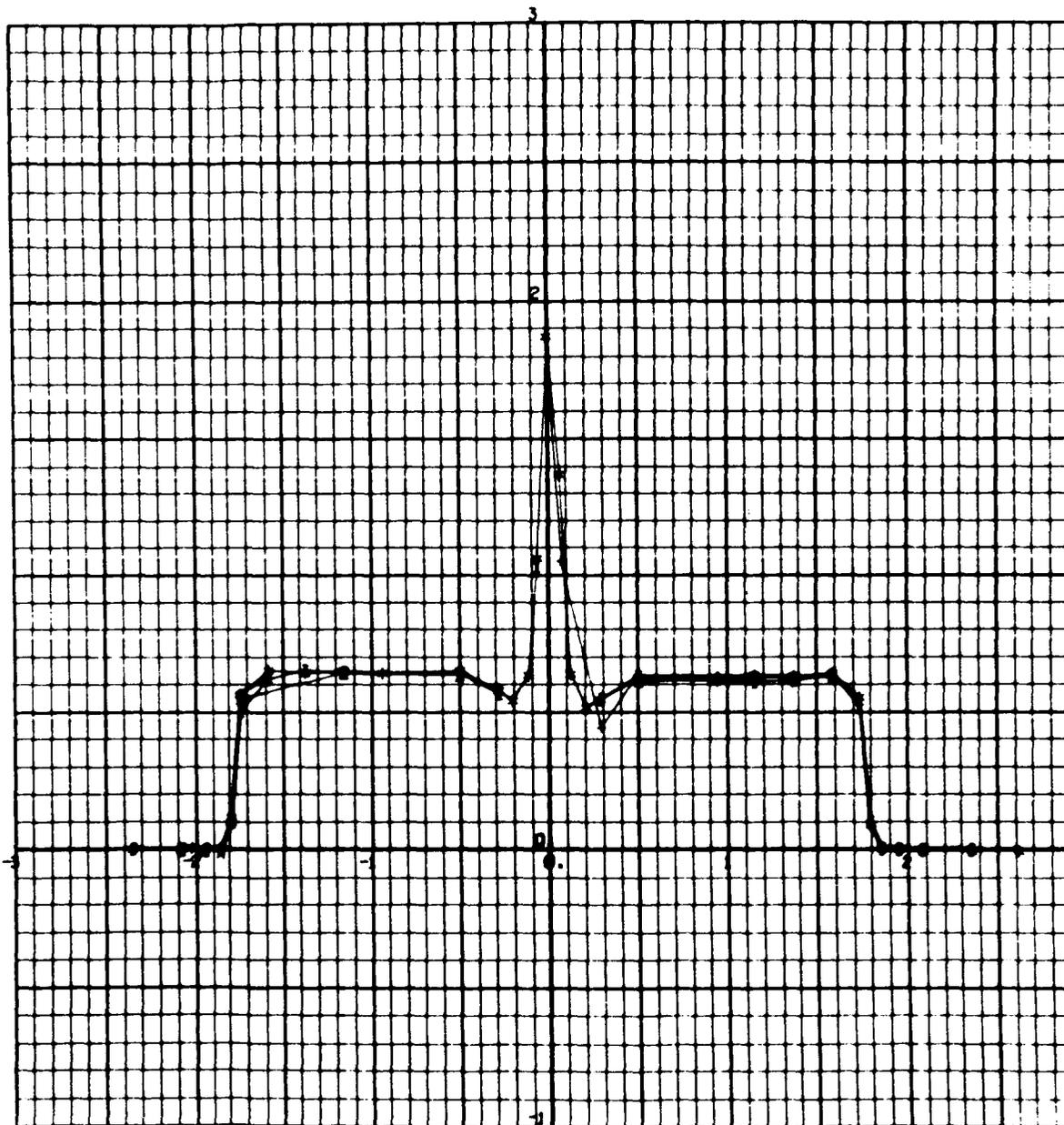
1 - 7 X

2 - 6 I

4 +

8 C

PRESSURE COEFFICIENT



S OVER R

~~CONFIDENTIAL~~



~~CONFIDENTIAL~~

PRESSURE DISTRIBUTION TEST APOLLO PS-3 A.E.D.C. TUNNEL C	CONFIGURATION C2 GROUP NUMBER 9. TOTAL PRESSURE 1578.1 PSIA TOTAL TEMPERATURE 1898.0 DEGREES RANKINE REYNOLDS NUMBER PER INCH $0.1584 \times 10^{-6}$ ANGLE OF ATTACK 3.00 DEGREES	MACH NO. , 10.18	<table border="0"> <tr> <th>RAY</th> <th>SYMBOL</th> </tr> <tr> <td>0 - 9</td> <td>*</td> </tr> <tr> <td>1 - 7</td> <td>X</td> </tr> <tr> <td>2 - 6</td> <td>I</td> </tr> <tr> <td>4</td> <td>+</td> </tr> <tr> <td>8</td> <td>C</td> </tr> </table>	RAY	SYMBOL	0 - 9	*	1 - 7	X	2 - 6	I	4	+	8	C
RAY	SYMBOL														
0 - 9	*														
1 - 7	X														
2 - 6	I														
4	+														
8	C														



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PRESSURE DISTRIBUTION TEST

APOLLO PS-3

A.E.D.C. TUNNEL C

CONFIGURATION C2 MACH NO. , 10.18  
 GROUP NUMBER 10.  
 TOTAL PRESSURE 1583.8 PSIA  
 TOTAL TEMPERATURE 1888.0 DEGREES RANKINE  
 REYNOLDS NUMBER PER INCH  $0.1605 \times 10^{-6}$   
 ANGLE OF ATTACK 4.95 DEGREES

RAY	SYMBOL
0 - 9	*
1 - 7	X
2 - 6	I
4	+
8	C

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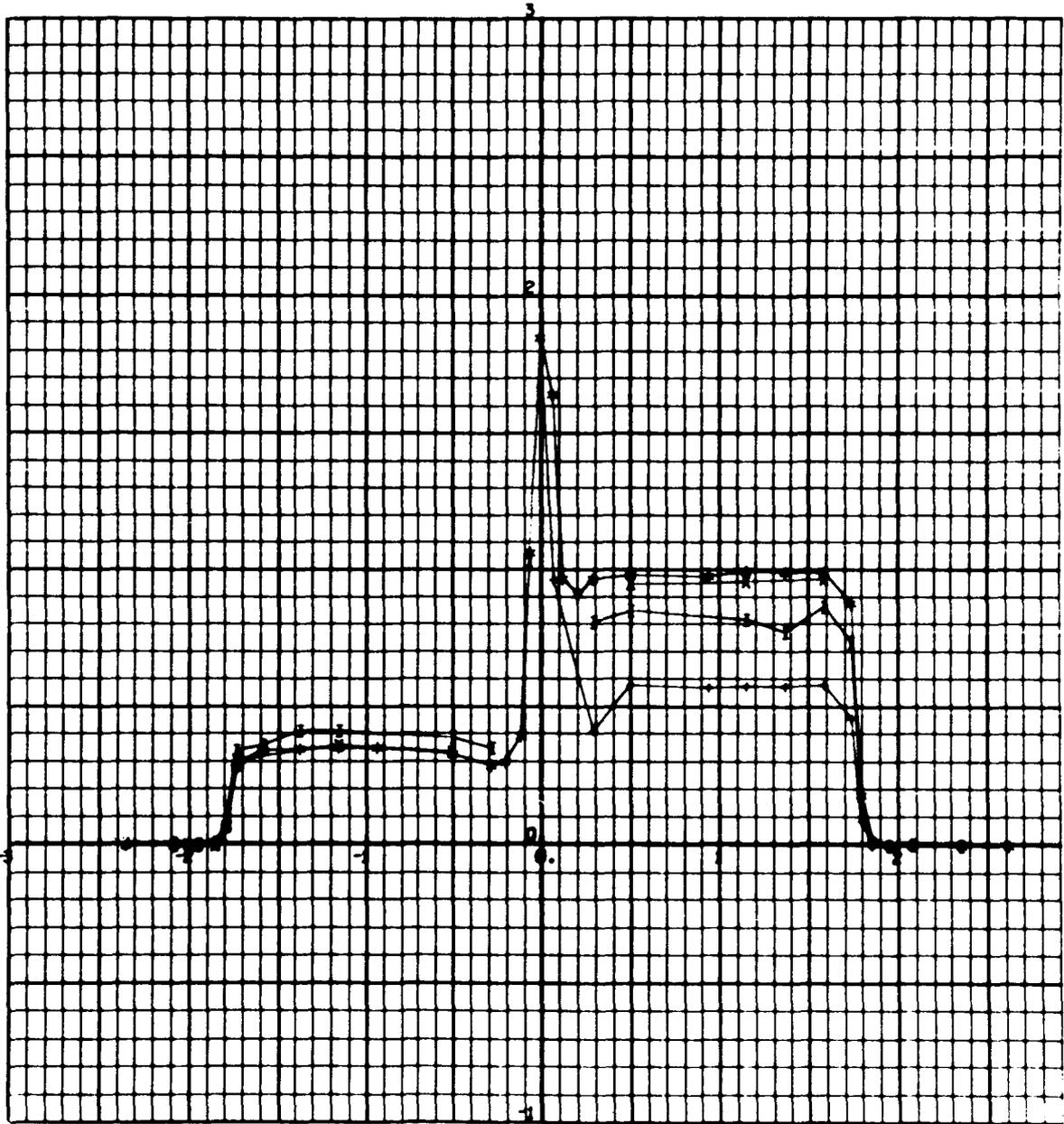
~~CONFIDENTIAL~~

PRESSURE DISTRIBUTION TEST  
 APOLLO PS-3  
 A.E.D.C. TUNNEL C

CONFIGURATION C2  
 GROUP NUMBER 11.  
 TOTAL PRESSURE 1576.9 PSIA  
 TOTAL TEMPERATURE 1898.0 DEGREES RANKINE  
 REYNOLDS NUMBER PER INCH  $0.1582 \times 10^{-6}$   
 ANGLE OF ATTACK 10.00 DEGREES

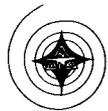
RAY	SYMBOL
0 - 9	o
1 - 7	x
2 - 6	I
4	+
8	c

PRESSURE COEFFICIENT



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PRESSURE DISTRIBUTION TEST  
APOLLO PS-3  
A.E.D.C. TUNNEL C

CONFIGURATION C2 MACH NO. , 10.18  
GROUP NUMBER 12.  
TOTAL PRESSURE 1584.6 PSIA  
TOTAL TEMPERATURE 1900.0 DEGREES RANKINE  
REYNOLDS NUMBER PER INCH  $0.1587 \times 10^{-6}$   
ANGLE OF ATTACK 15.02 DEGREES

RAY	SYMBOL
0 - 9	*
1 - 7	x
2 - 6	I
4	+
8	C

PRESSURE COEFFICIENT



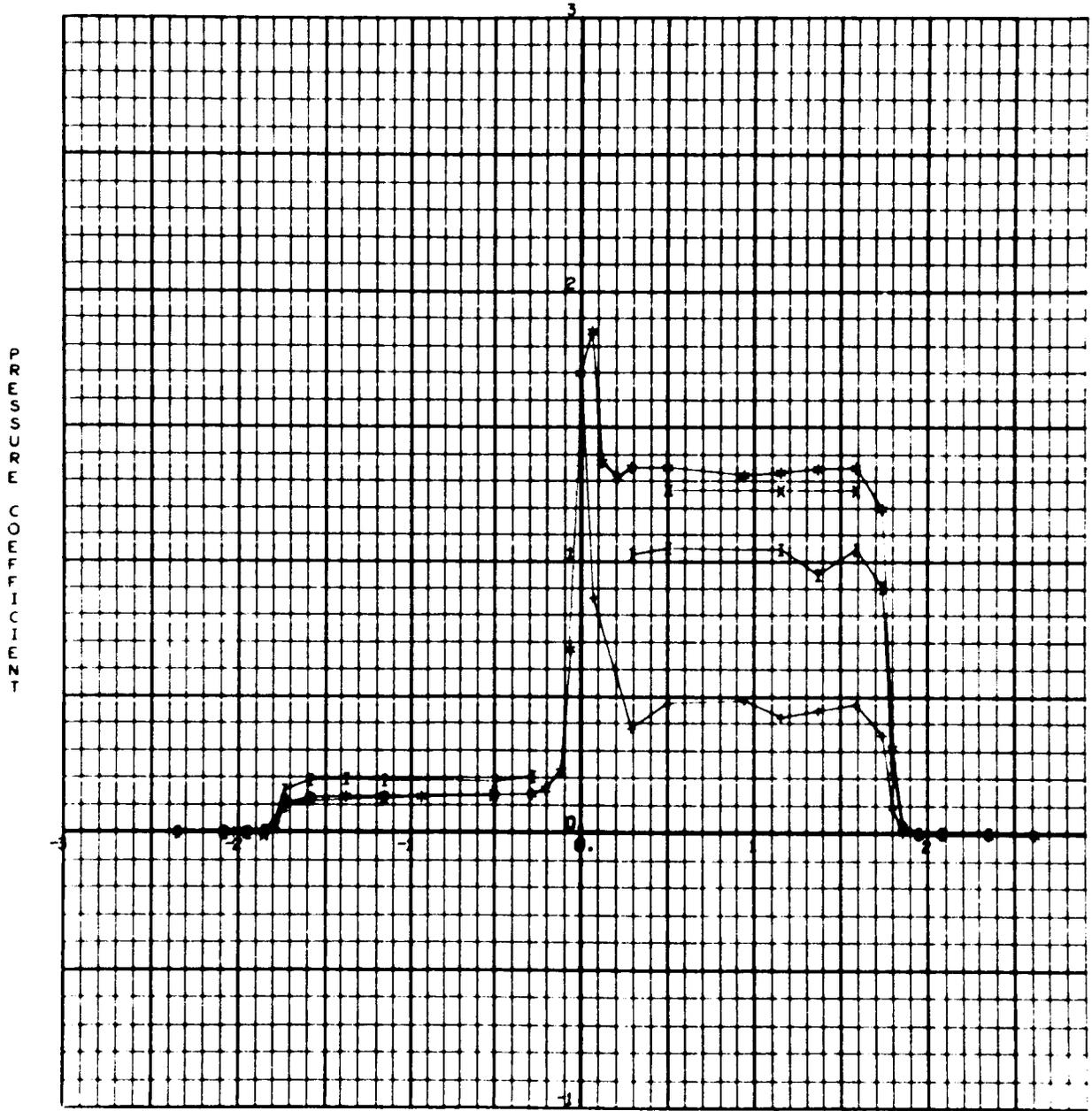
S OVER R

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PRESSURE DISTRIBUTION TEST APOLLO PS-3 A.E.D.C. TUNNEL C	CONFIGURATION C2 GROUP NUMBER 13. TOTAL PRESSURE 1587.8 PSIA TOTAL TEMPERATURE 1888.0 DEGREES RANKINE REYNOLDS NUMBER PER INCH $0.1609 \times 10^{-6}$ ANGLE OF ATTACK 19.96 DEGREES	MACH NO. , 10.18	<table border="0"> <tr> <th>RAY</th> <th>SYMBOL</th> </tr> <tr> <td>0 - 9</td> <td>*</td> </tr> <tr> <td>1 - 7</td> <td>x</td> </tr> <tr> <td>2 - 6</td> <td>I</td> </tr> <tr> <td>4</td> <td>+</td> </tr> <tr> <td>8</td> <td>C</td> </tr> </table>	RAY	SYMBOL	0 - 9	*	1 - 7	x	2 - 6	I	4	+	8	C
RAY	SYMBOL														
0 - 9	*														
1 - 7	x														
2 - 6	I														
4	+														
8	C														



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PRESSURE DISTRIBUTION TEST	CONFIGURATION C2	MACH NO. , 10.18	RAY	SYMBOL
APOLLO PS-3	GROUP NUMBER 14.		0 - 9	*
A.E.D.C. TUNNEL C	TOTAL PRESSURE 1583.3 PSIA		1 - 7	X
	TOTAL TEMPERATURE 1891.0 DEGREES RANKINE		2 - 6	I
	REYNOLDS NUMBER PER INCH 0.1600 X 10 <sup>-6</sup>		4	o
	ANGLE OF ATTACK 25.05 DEGREES		8	C



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PRESSURE DISTRIBUTION TEST

APOLLO PS-3

A.E.D.C. TUNNEL C

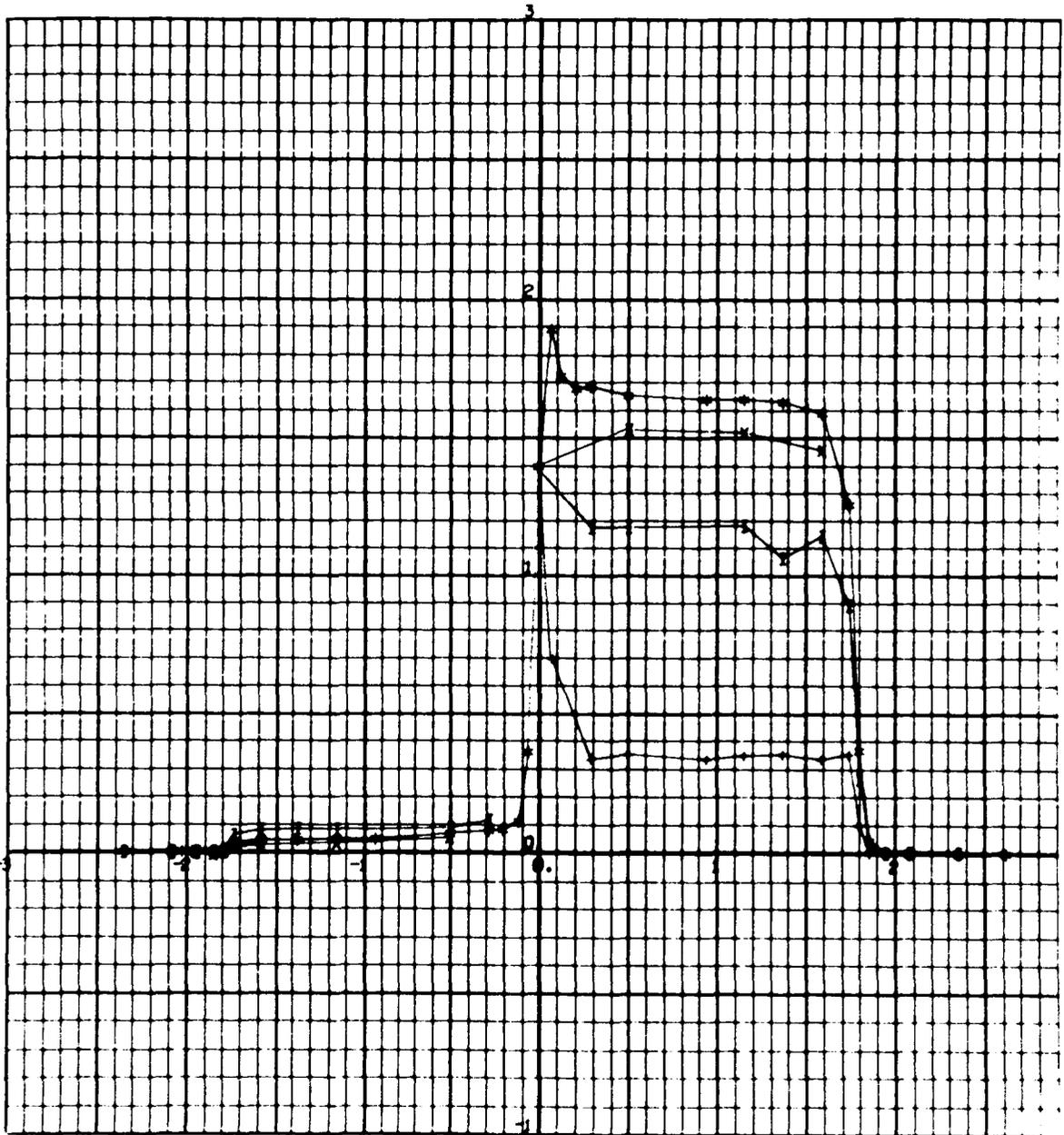
CONFIGURATION C2  
GROUP NUMBER 15.

TOTAL PRESSURE 1587.0 PSIA  
TOTAL TEMPERATURE 1885.0 DEGREES RANKINE  
REYNOLDS NUMBER PER INCH  $0.1613 \times 10^{-6}$   
ANGLE OF ATTACK 29.91 DEGREES

MACH NO. , 10.18

RAY	SYMBOL
0 - 9	o
1 - 7	x
2 - 6	I
4	+
8	c

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PRESSURE DISTRIBUTION TEST

APOLLO PS-3

A.E.D.C. TUNNEL C

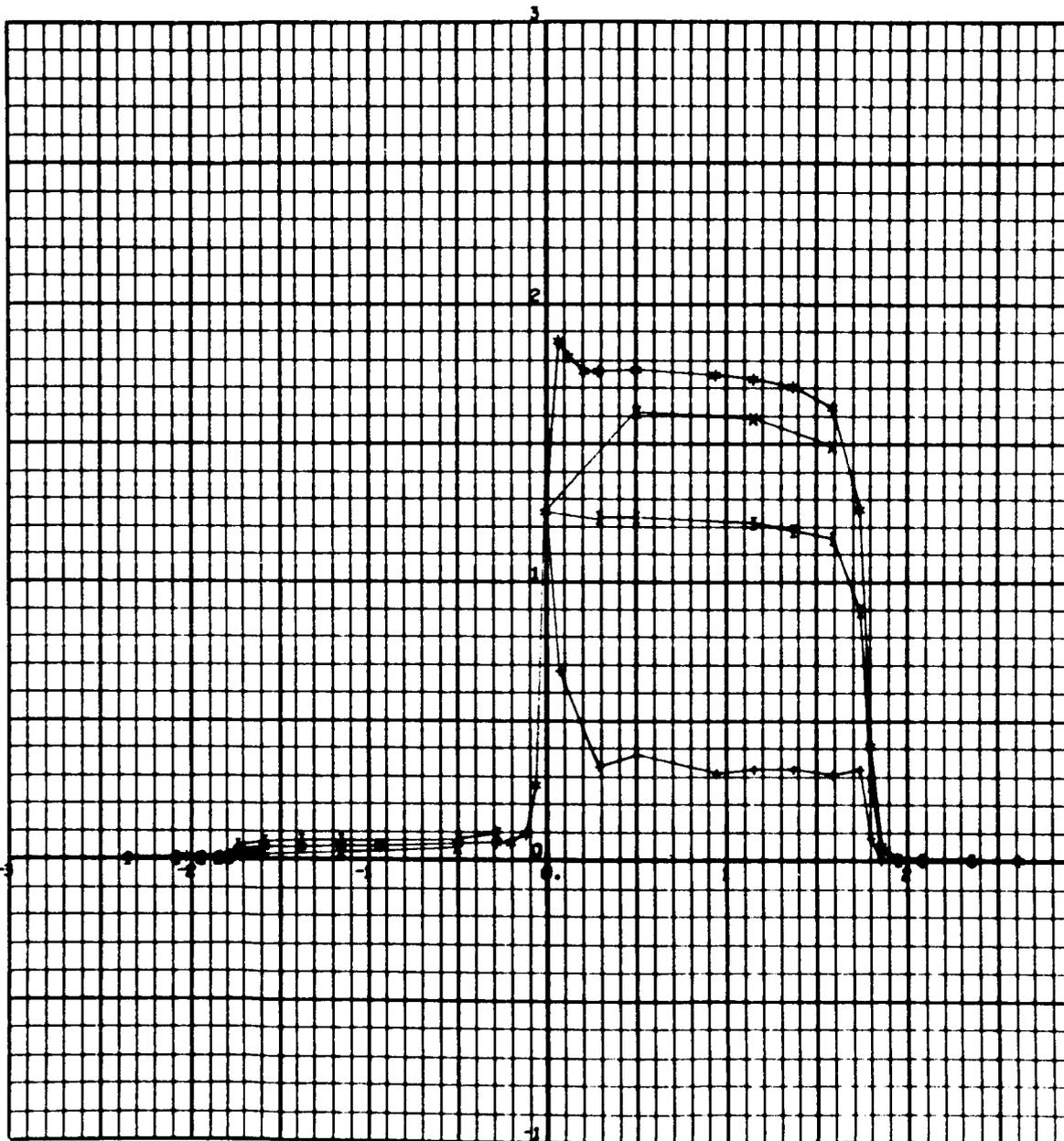
CONFIGURATION C2  
GROUP NUMBER 2.

TOTAL PRESSURE 1584.1 PSIA  
TOTAL TEMPERATURE 1898.0 DEGREES RANKINE  
REYNOLDS NUMBER PER INCH  $0.1590 \times 10^{-6}$   
ANGLE OF ATTACK 34.95 DEGREES

MACH NO. , 10.18

RAY	SYMBOL
0 - 9	*
1 - 7	X
2 - 6	I
4	+
8	C

PERFORMANCE



S OVER R

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PRESSURE DISTRIBUTION TEST

APOLLO PS-3

A.E.D.C. TUNNEL C

CONFIGURATION C2

GROUP NUMBER 3.

TOTAL FRESSURE 1586.5 PSIA

TOTAL TEMPERATURE 1912.0 DEGREES RANKINE

REYNOLDS NUMBER PER INCH  $0.1571 \times 10^{-6}$

ANGLE OF ATTACK 39.99 DEGREES

MACH NO. , 10.18

RAY

SYMBOL

0 - 9 \*

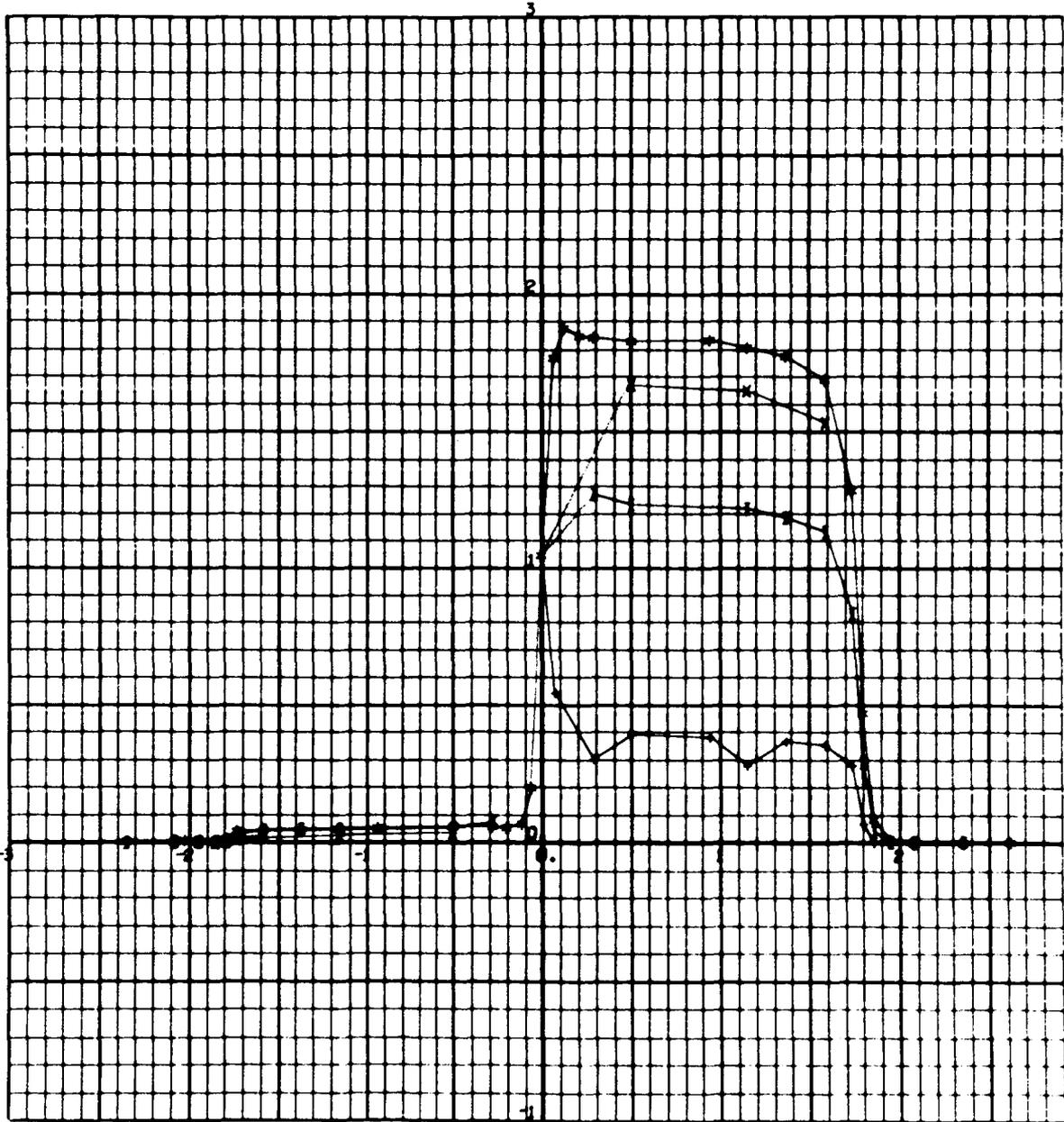
1 - 7 X

2 - 6 I

4 +

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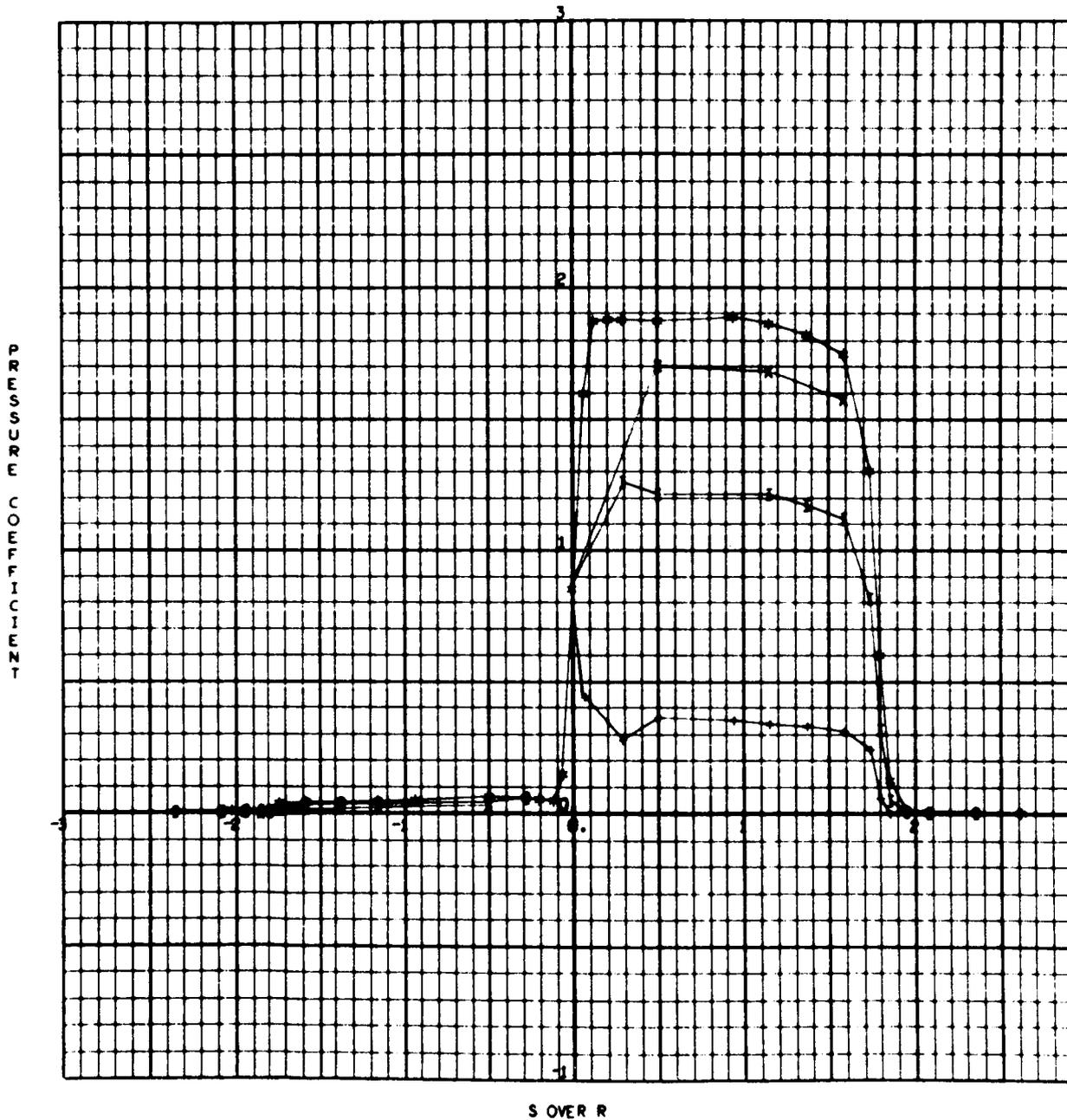


~~CONFIDENTIAL~~

PRESSURE DISTRIBUTION TEST  
 APOLLO PS-3  
 A.E.D.C. TUNNEL C

CONFIGURATION C2 MACH NO. , 10.18  
 GROUP NUMBER 4.  
 TOTAL PRESSURE 1585.5 PSIA  
 TOTAL TEMPERATURE 1909.0 DEGREES RANKINE  
 REYNOLDS NUMBER PER INCH 0.1574 X 10<sup>-6</sup>  
 ANGLE OF ATTACK 45.01 DEGREES

RAY	SYMBOL
0 - 9	*
1 - 7	X
2 - 6	I
4	+
8	C



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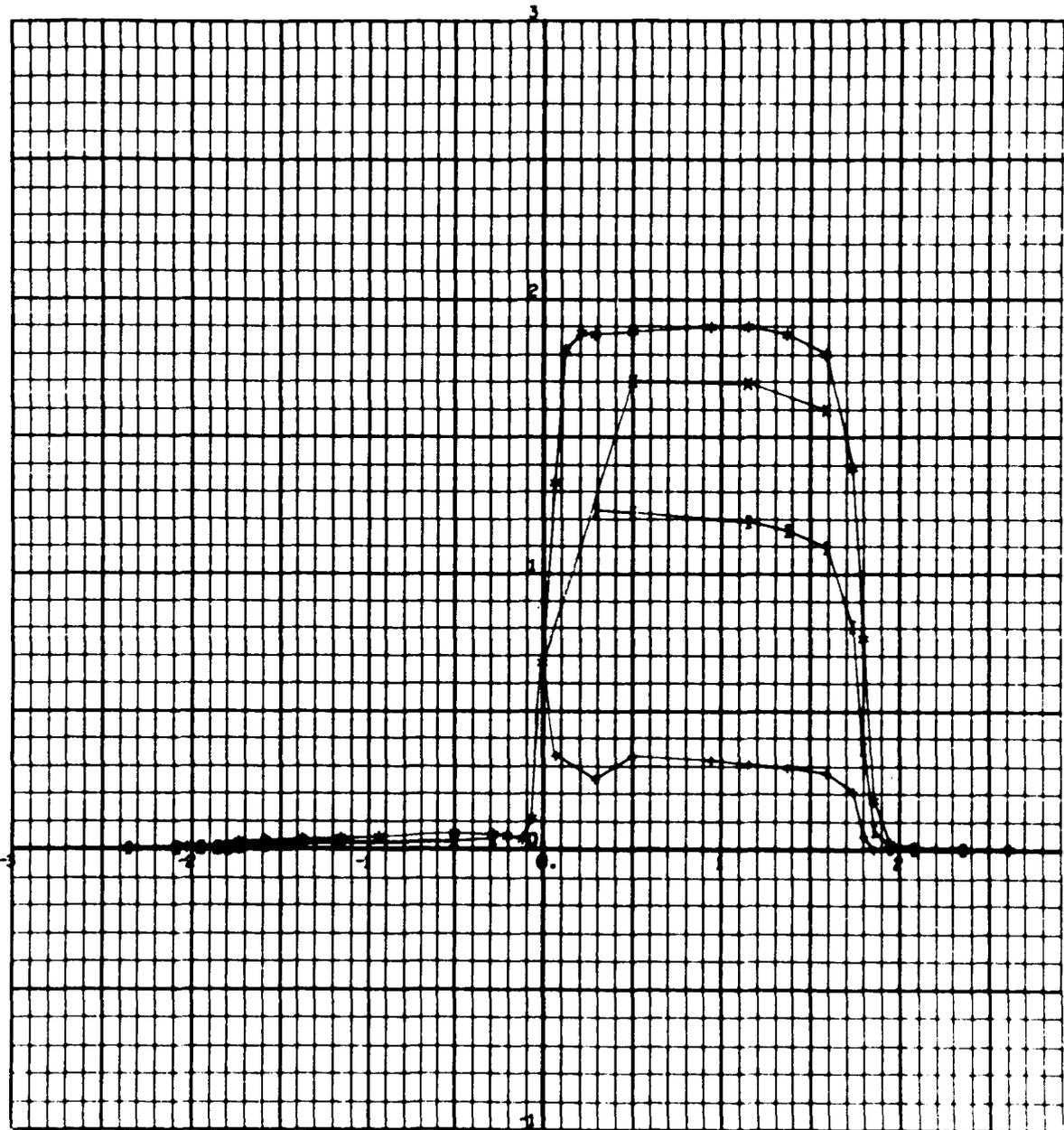
~~CONFIDENTIAL~~

PRESSURE DISTRIBUTION TEST  
APOLLO PS-3  
A.E.D.C. TUNNEL C

CONFIGURATION C2 MACH NO. , 10.18  
GROUP NUMBER 5.  
TOTAL PRESSURE 1585.8 PSIA  
TOTAL TEMPERATURE 1891.0 DEGREES RANKINE  
REYNOLDS NUMBER PER INCH  $0.1602 \times 10^{-6}$   
ANGLE OF ATTACK 49.97 DEGREES

RAY	SYMBOL
0 - 9	*
1 - 7	X
2 - 6	I
4	+
8	C

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PRESSURE DISTRIBUTION TEST

APOLLO PS-3

A.E.D.C. TUNNEL C

CONFIGURATION C2

GROUP NUMBER 6.

TOTAL PRESSURE 1586.5 PSIA

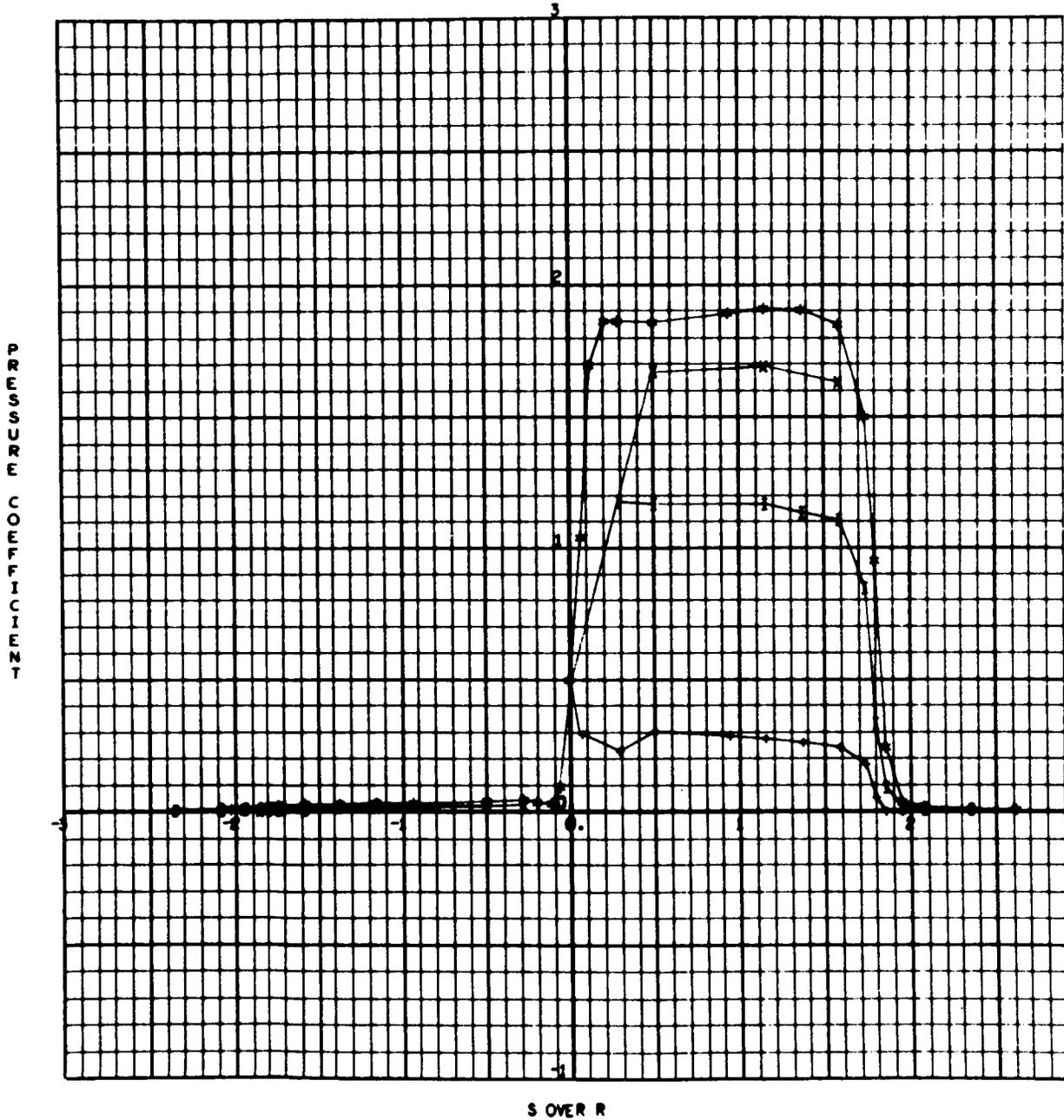
TOTAL TEMPERATURE 1899.0 DEGREES RANKINE

REYNOLDS NUMBER PER INCH  $0.1591 \times 10^{-6}$

ANGLE OF ATTACK 55.05 DEGREES

MACH NO. , 10.18

RAY	SYMBOL
0 - 9	*
1 - 7	X
2 - 6	I
4	+
8	C



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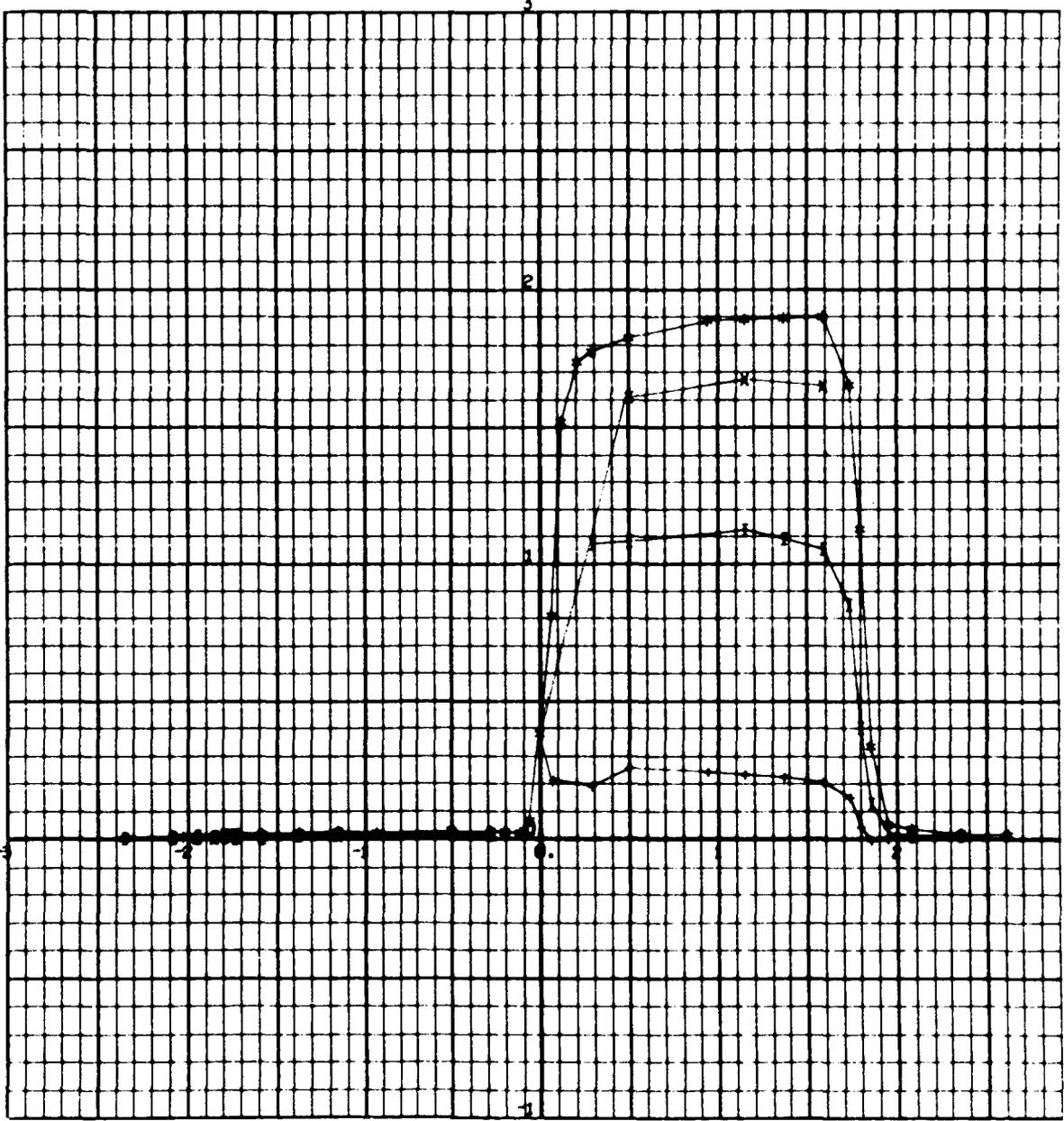
~~CONFIDENTIAL~~

PRESSURE DISTRIBUTION TEST  
APOLLO PS-3  
A.E.D.C. TUNNEL C

CONFIGURATION C2 MACH NO. , 10.18  
GROUP NUMBER 7.  
TOTAL PRESSURE 1578.1 PSIA  
TOTAL TEMPERATURE 1806.0 DEGREES RANKINE  
REYNOLDS NUMBER PER INCH  $0.1602 \times 10^{-6}$   
ANGLE OF ATTACK 59.90 DEGREES

RAY	SYMBOL
0 - 9	*
1 - 7	X
2 - 6	I
4	•
8	C

PRESSURE COEFFICIENT



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~~CONFIDENTIAL~~

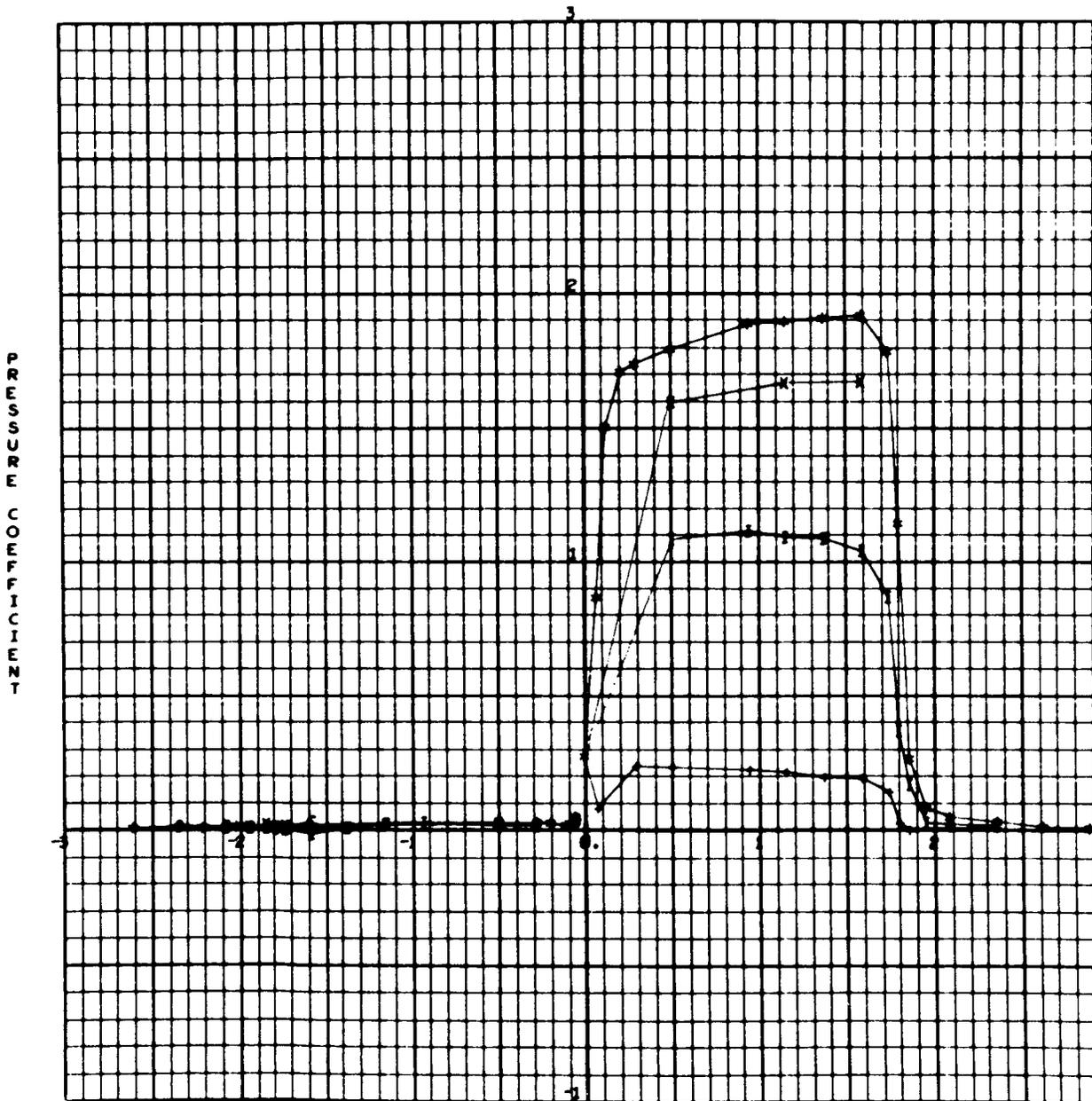


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PRESSURE DISTRIBUTION TEST  
 APOLLO PS-3  
 A.E.D.C. TUNNEL C

CONFIGURATION C2 MACH NO. , 10.18  
 GROUP NUMBER 32.  
 TOTAL PRESSURE 1580.8 PSIA  
 TOTAL TEMPERATURE 1908.0 DEGREES RANKINE  
 REYNOLDS NUMBER PER INCH  $0.1571 \times 10^{-6}$   
 ANGLE OF ATTACK 64.98 DEGREES

RAY	SYMBOL
0 - 9	*
1 - 7	X
2 - 6	I
4	+
8	C



S OVER R

~~CONFIDENTIAL~~



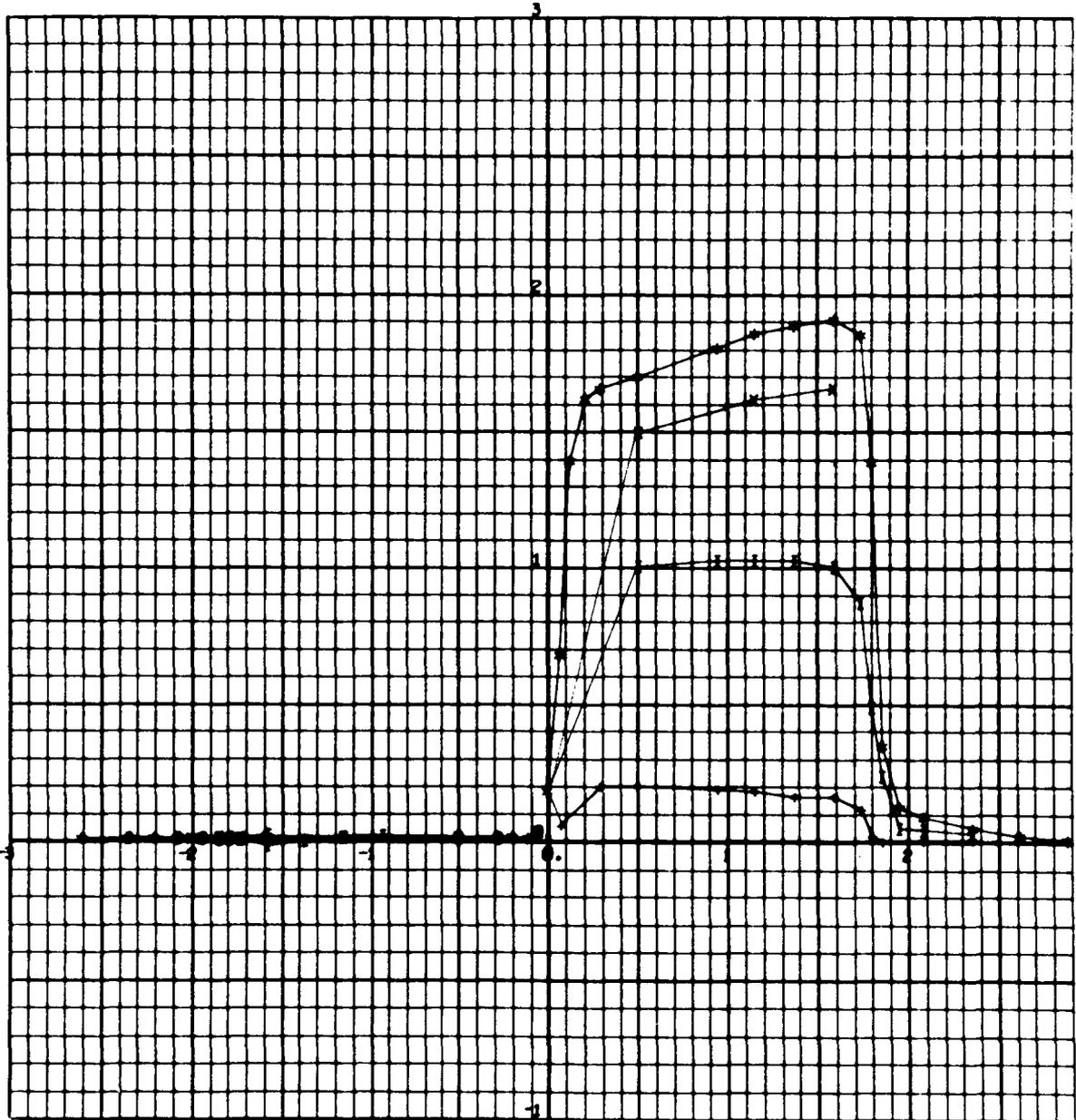
~~CONFIDENTIAL~~

PRESSURE DISTRIBUTION TEST  
 APOLLO PS-3  
 A.E.D.C. TUNNEL C

CONFIGURATION C2 MACH NO. , 10.18  
 GROUP NUMBER 33.  
 TOTAL PRESSURE 1580.8 PSIA  
 TOTAL TEMPERATURE 1903.0 DEGREES RANKINE  
 REYNOLDS NUMBER PER INCH  $0.1579 \times 10^{-6}$   
 ANGLE OF ATTACK 70.00 DEGREES

RAY	SYMBOL
0 - 9	*
1 - 7	x
2 - 6	I
4	+
8	C

PRESSURE COEFFICIENT



S OVER R

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~~CONFIDENTIAL~~

PRESSURE DISTRIBUTION TEST

APOLLO PS-3

A.E.D.C. TUNNEL C

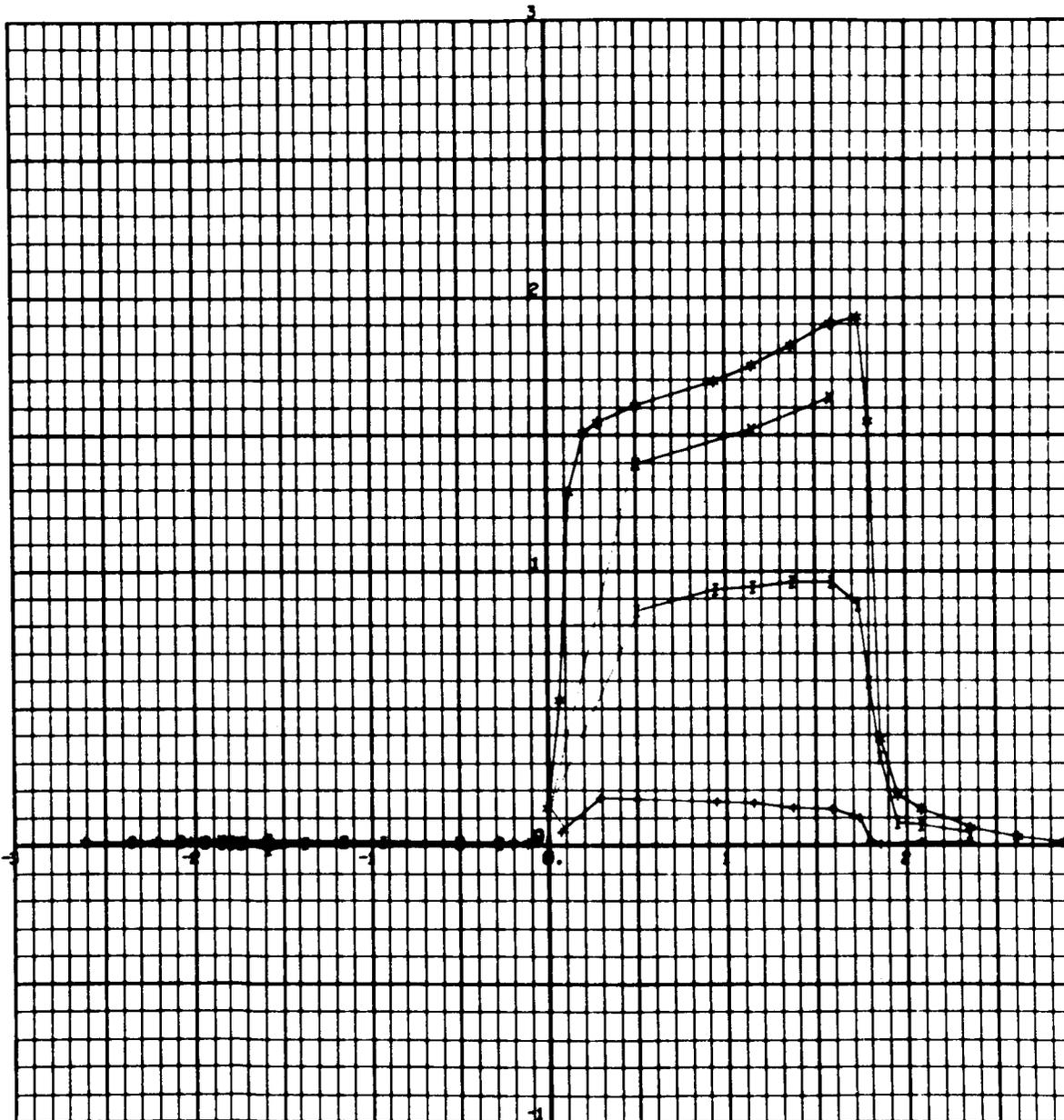
CONFIGURATION C2  
GROUP NUMBER 34.

TOTAL PRESSURE 1580.5 PSIA  
TOTAL TEMPERATURE 1898.0 DEGREES RANKINE  
REYNOLDS NUMBER PER INCH  $0.1586 \times 10^{-6}$   
ANGLE OF ATTACK 75.04 DEGREES

MACH NO. , 10.18

RAY	SYMBOL
0 - 9	●
1 - 7	X
2 - 6	I
4	+
8	C

PRESSURE COEFFICIENT



S OVER R

~~CONFIDENTIAL~~

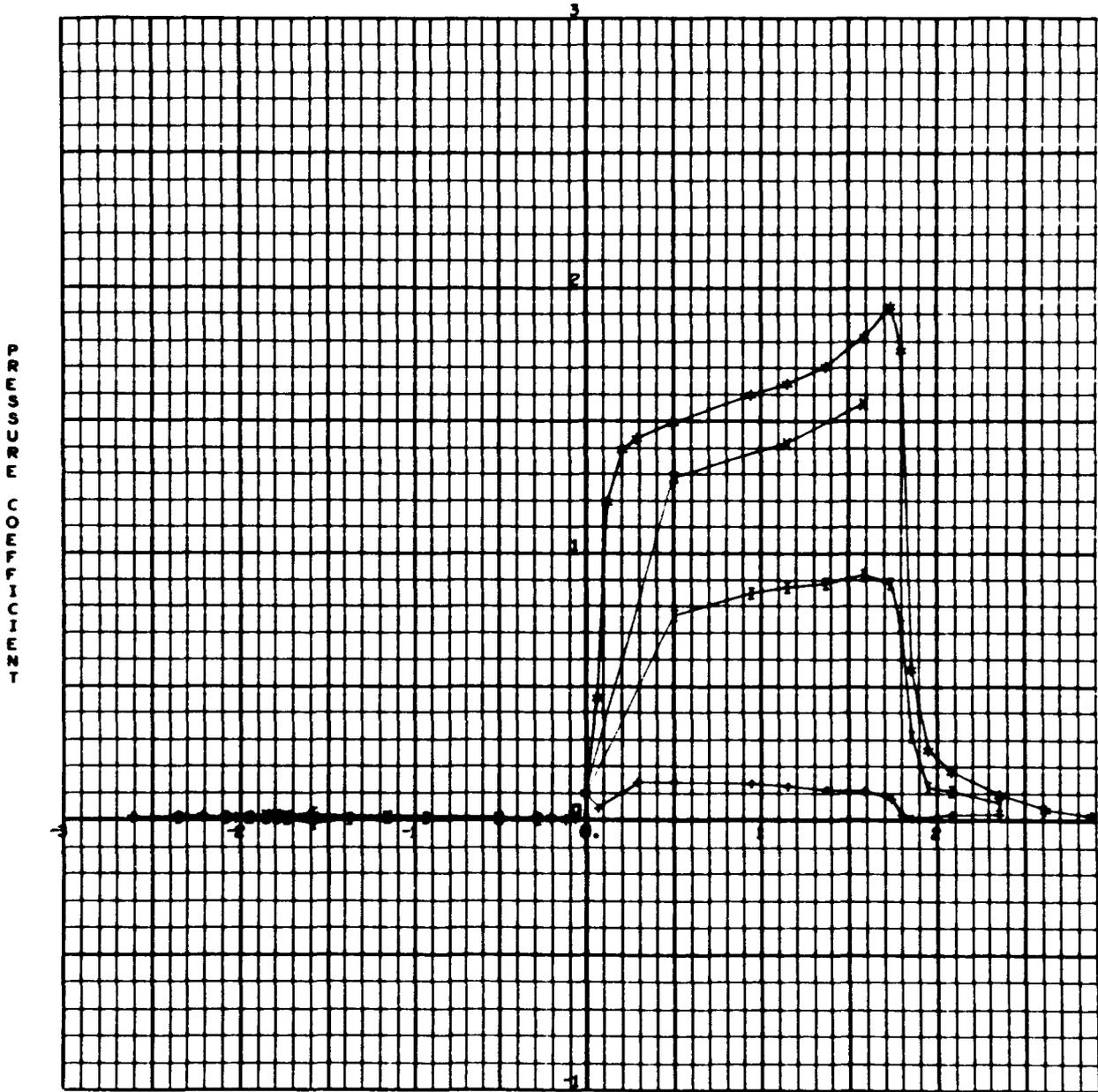


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PRESSURE DISTRIBUTION TEST  
 APOLLO PS-3  
 A.E.D.C. TUNNEL C

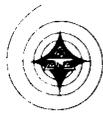
CONFIGURATION C2 MACH NO. , 10.10  
 GROUP NUMBER 35.  
 TOTAL PRESSURE 1580.8 PSIA  
 TOTAL TEMPERATURE 1889.0 DEGREES RANKINE  
 REYNOLDS NUMBER PER INCH  $0.1600 \times 10^{-6}$   
 ANGLE OF ATTACK 79.99 DEGREES

RAY	SYMBOL
0 - 9	*
1 - 7	X
2 - 6	I
4	+
8	C



S OVER R

~~CONFIDENTIAL~~



~~CONFIDENTIAL~~

PRESSURE DISTRIBUTION TEST  
 APOLLO PS-3  
 A.E.D.C. TUNNEL C

CONFIGURATION C2 MACH NO. , 10.18  
 GROUP NUMBER 36.  
 TOTAL PRESSURE 1505.7 PSIA  
 TOTAL TEMPERATURE 1892.0 DEGREES RANKINE  
 REYNOLDS NUMBER PER INCH  $0.1601 \times 10^{-6}$   
 ANGLE OF ATTACK 05.08 DEGREES

RAY	SYMBOL
0 - 9	*
1 - 7	x
2 - 6	I
4	+
8	C



S OVER R

~~CONFIDENTIAL~~



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PRESSURE DISTRIBUTION TEST

APOLLO PS-3

A.E.D.C. TUNNEL C

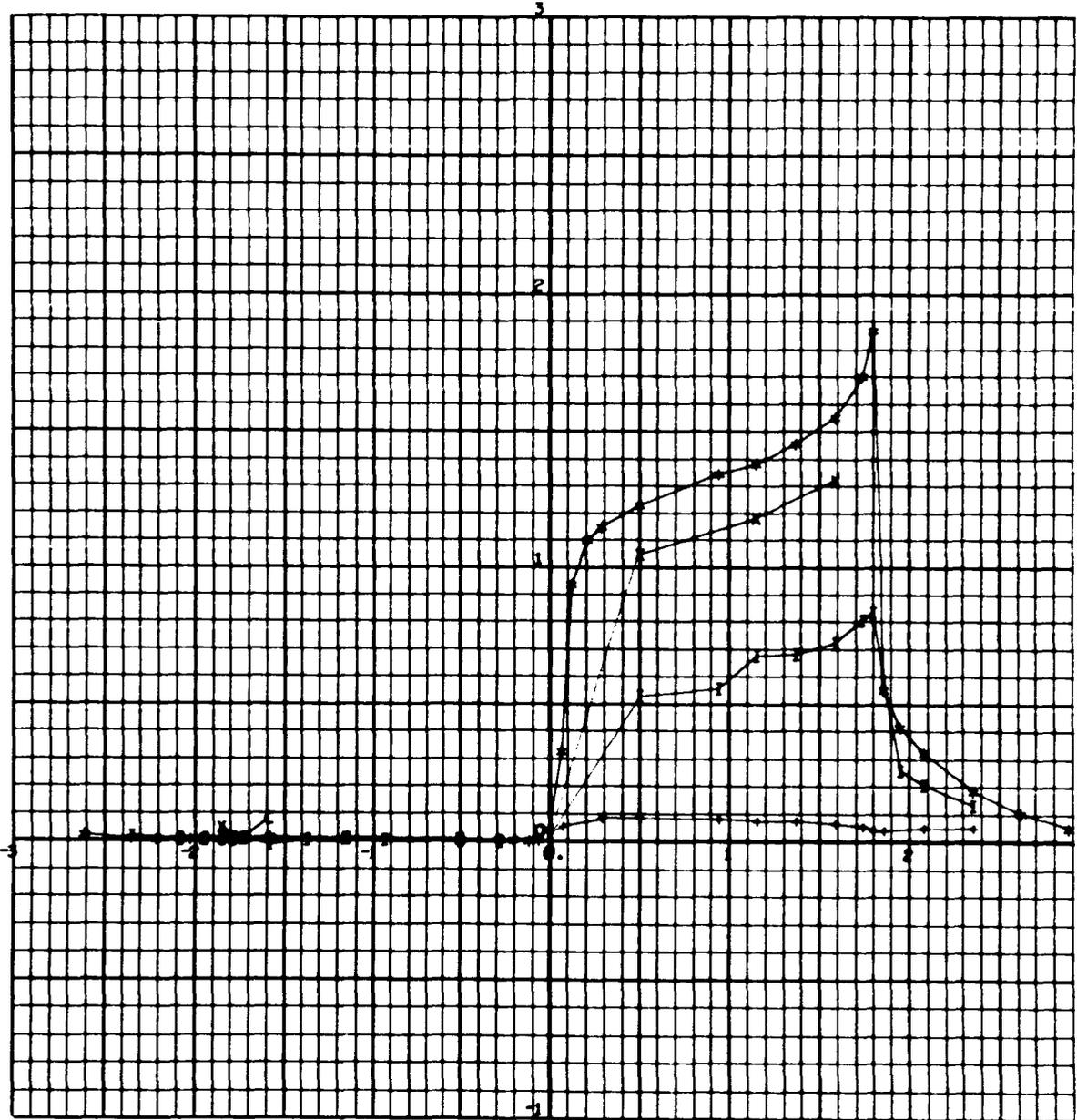
CONFIGURATION C2  
GROUP NUMBER 37.

TOTAL PRESSURE 1588.5 PSIA  
TOTAL TEMPERATURE 1887.0 DEGREES RANKINE  
REYNOLDS NUMBER PER INCH  $0.1611 \times 10^{-6}$   
ANGLE OF ATTACK 89.85 DEGREES

MACH NO. , 10.18

RAY	SYMBOL
0 - 9	*
1 - 7	X
2 - 6	I
4	+
8	C

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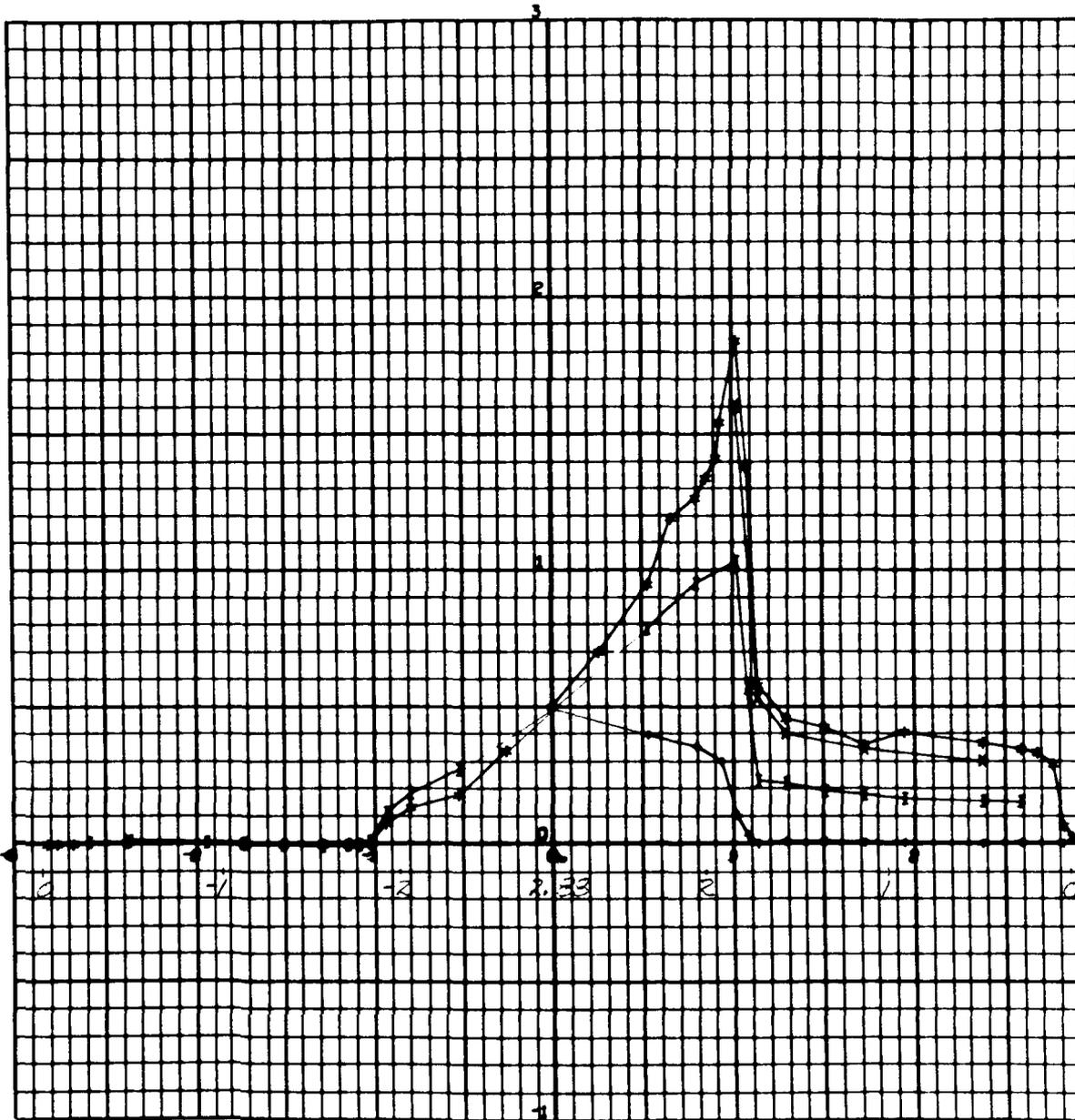
~~CONFIDENTIAL~~

PRESSURE DISTRIBUTION TEST  
 APOLLO PS-3  
 A.E.D.C. TUNNEL C

CONFIGURATION C2 MACH NO. , 10.18  
 GROUP NUMBER 16.  
 TOTAL PRESSURE 1603.1 PSIA  
 TOTAL TEMPERATURE 1883.0 DEGREES RANKINE  
 REYNOLDS NUMBER PER INCH  $0.1633 \times 10^{-6}$   
 ANGLE OF ATTACK 120.04 DEGREES

RAY	SYMBOL
0 - 9	*
1 - 7	X
2 - 6	I
4	+
8	C

PRESSURE COEFFICIENT



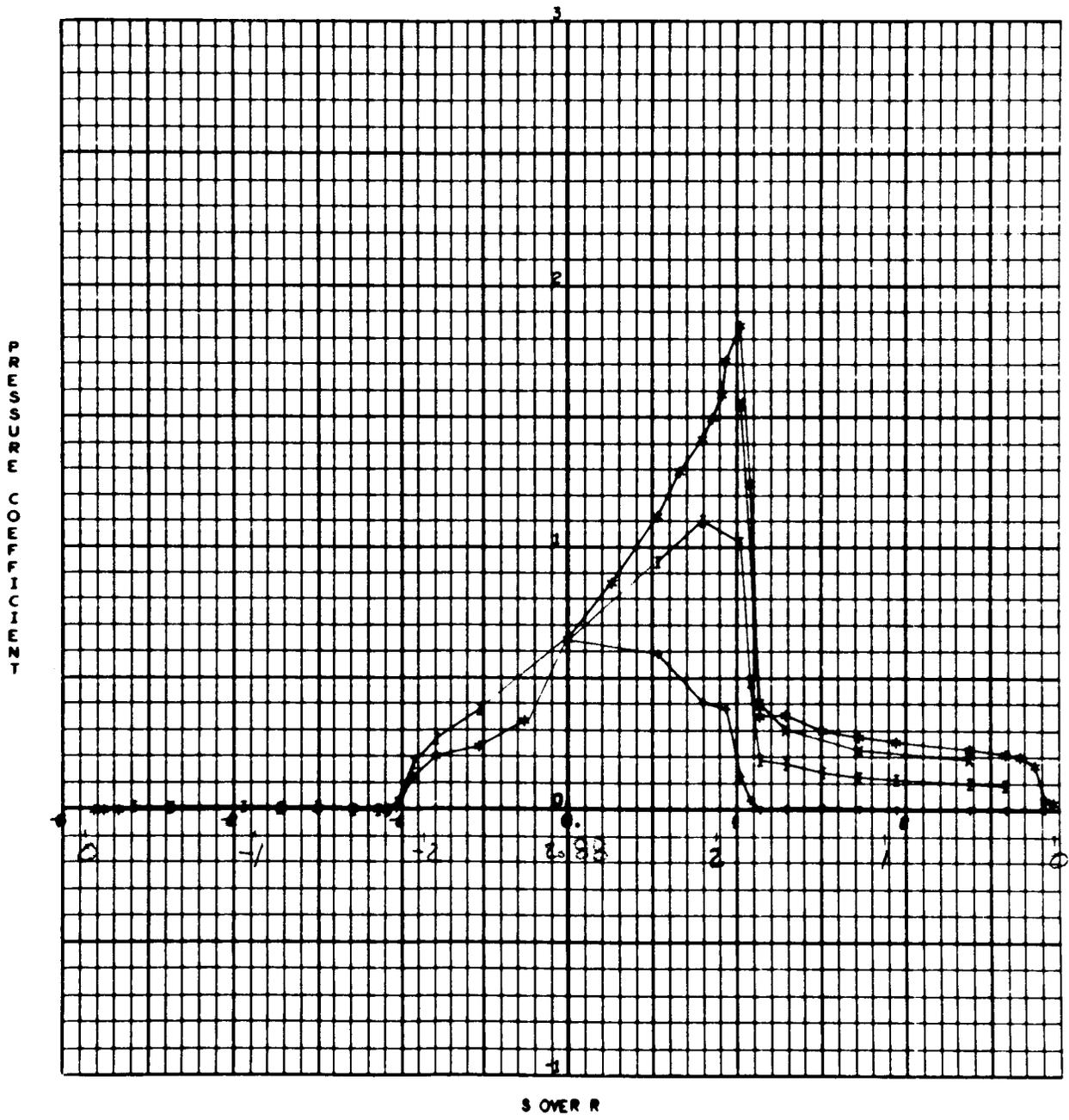
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~~CONFIDENTIAL~~

PRESSURE DISTRIBUTION TEST	CONFIGURATION C2	MACH NO. , 10.18	RAY	SYMBOL
APOLLO PS-3	GROUP NUMBER 17.		0 - 9	*
A.E.D.C. TUNNEL C	TOTAL PRESSURE 1597.0 PSIA		1 - 7	X
	TOTAL TEMPERATURE 1881.0 DEGREES RANKINE		2 - 6	I
	REYNOLDS NUMBER PER INCH 0.1630 X 10 <sup>-6</sup>		4	+
	ANGLE OF ATTACK 124.94 DEGREES		8	C

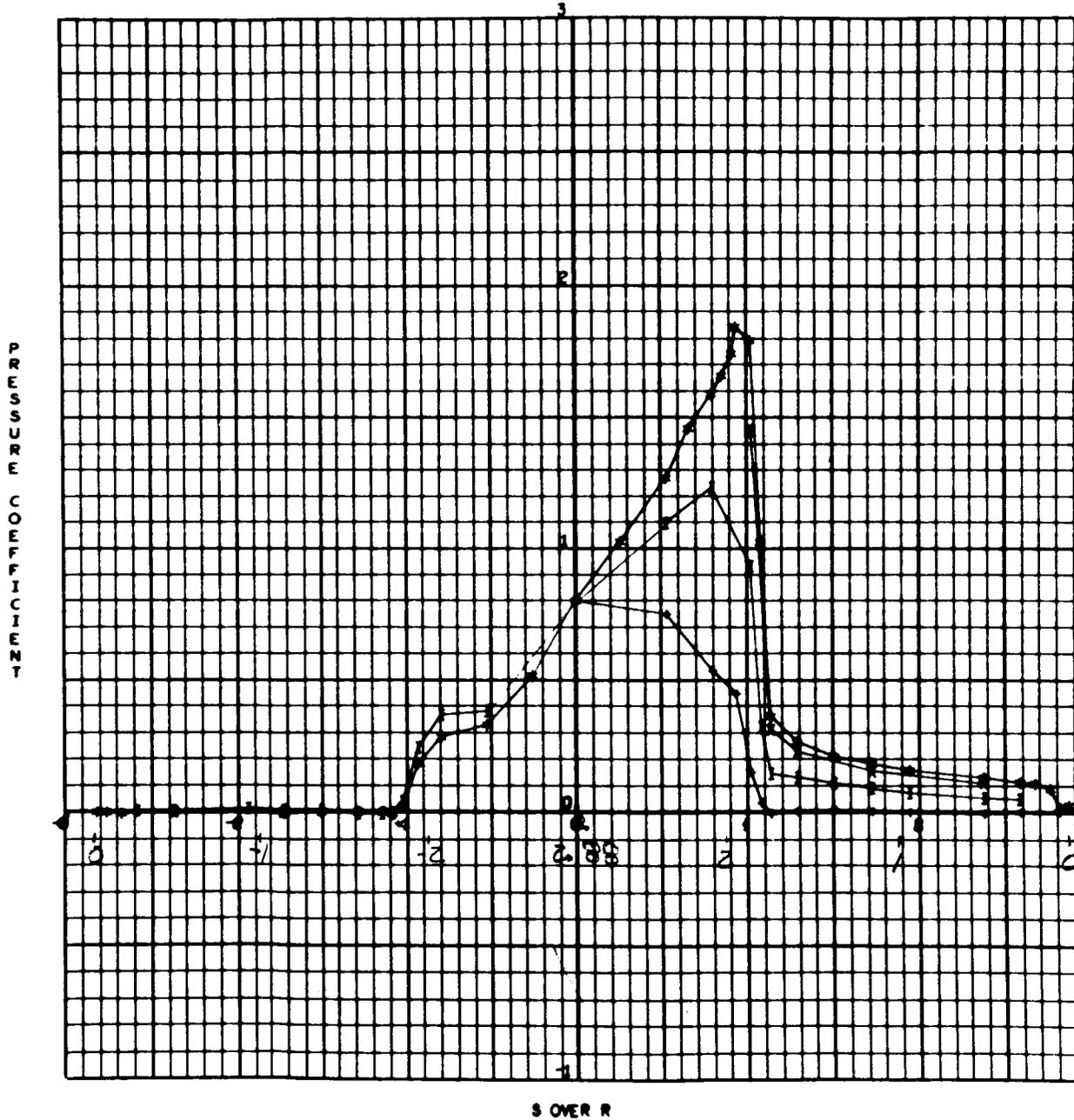


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PRESSURE DISTRIBUTION TEST	CONFIGURATION C2	MACH NO. . 10.18	RAY	SYMBOL
APOLLO PS-3	GROUP NUMBER 18.	TOTAL PRESSURE 1602.1 PSIA	0 - 9	*
A.E.D.C. TUNNEL C	TOTAL TEMPERATURE 1866.0 DEGREES RANKINE	REYNOLDS NUMBER PER INCH $0.1659 \times 10^{-6}$	1 - 7	X
	ANGLE OF ATTACK 130.01 DEGREES		2 - 6	I
			4	+
			8	C



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PRESSURE DISTRIBUTION TEST

APOLLO PS-3

A.E.D.C. TUNNEL C

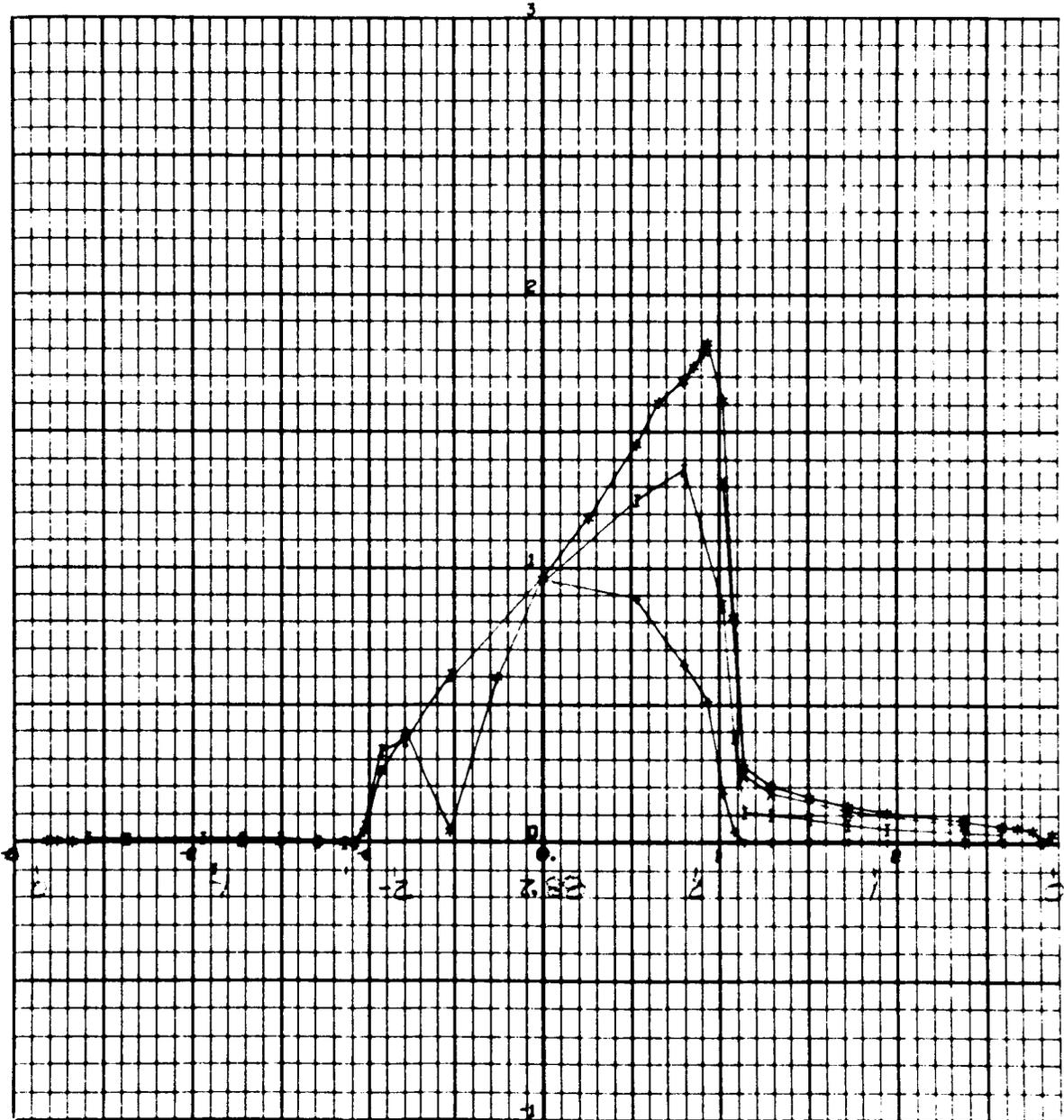
CONFIGURATION C2  
GROUP NUMBER 19.

TOTAL PRESSURE 1599.8 PSIA  
TOTAL TEMPERATURE 1873.0 DEGREES RANKINE  
REYNOLDS NUMBER PER INCH  $0.1645 \times 10^{-6}$   
ANGLE OF ATTACK 135.02 DEGREES

MACH NO. , 10.18

RAY	SYMBOL
0 - 9	*
1 - 7	x
2 - 6	I
4	o
8	c

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PRESSURE DISTRIBUTION TEST

APOLLO PS-3

A.E.D.C. TUNNEL C

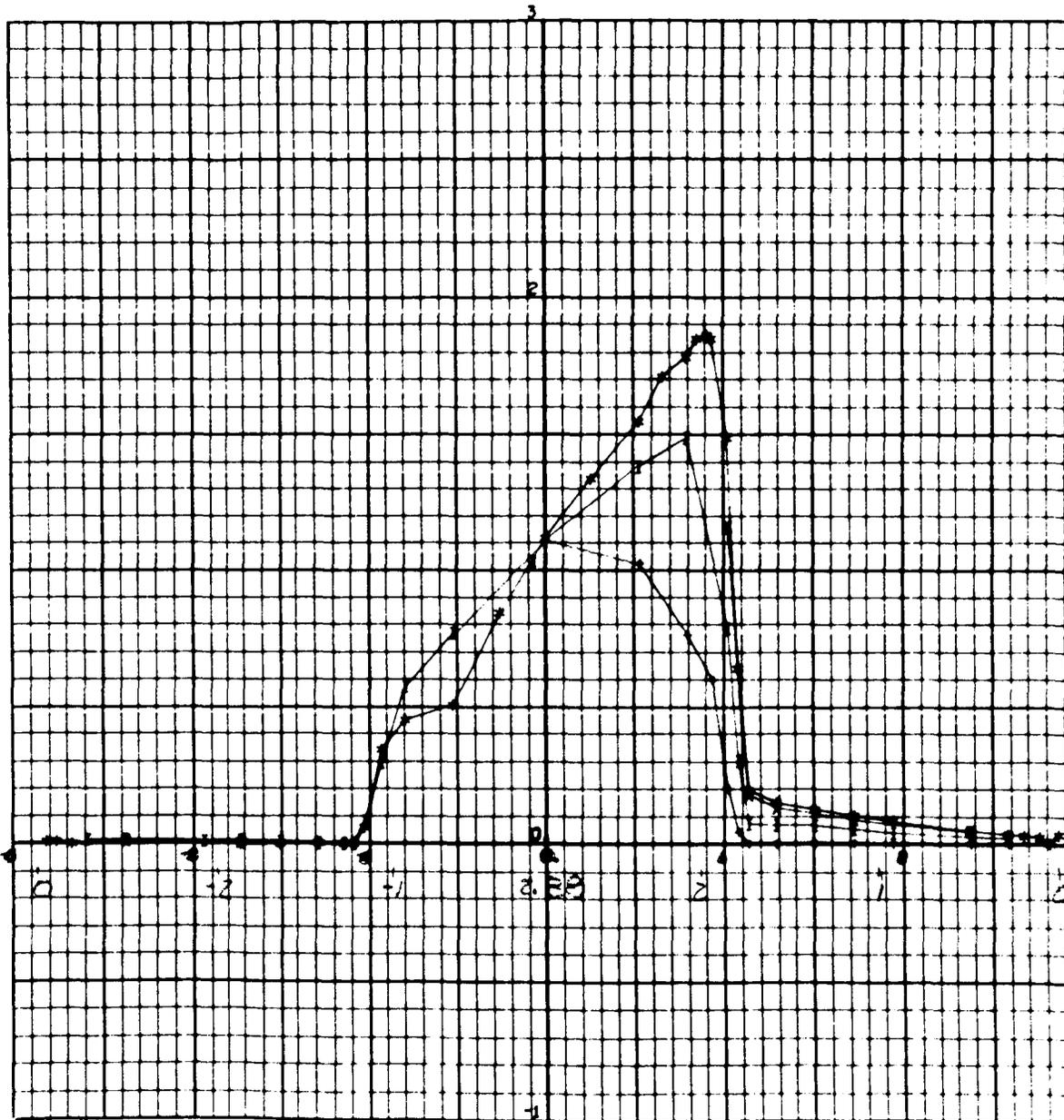
CONFIGURATION C2  
GROUP NUMBER 20.

TOTAL PRESSURE 1601.3 PSIA  
TOTAL TEMPERATURE 1886.0 DEGREES RANKINE  
REYNOLDS NUMBER PER INCH  $0.1626 \times 10^{-6}$   
ANGLE OF ATTACK 139.98 DEGREES

MACH NO. , 10.18

RAY	SYMBOL
0 - 9	*
1 - 7	X
2 - 6	I
4	+
8	C

PRESSURE COEFFICIENT



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PRESSURE DISTRIBUTION TEST

APOLLO PS-3

A.E.D.C. TUNNEL C

CONFIGURATION C2

GROUP NUMBER 21.

TOTAL PRESSURE 1600.6 PSIA

TOTAL TEMPERATURE 1884.0 DEGREES RANKINE

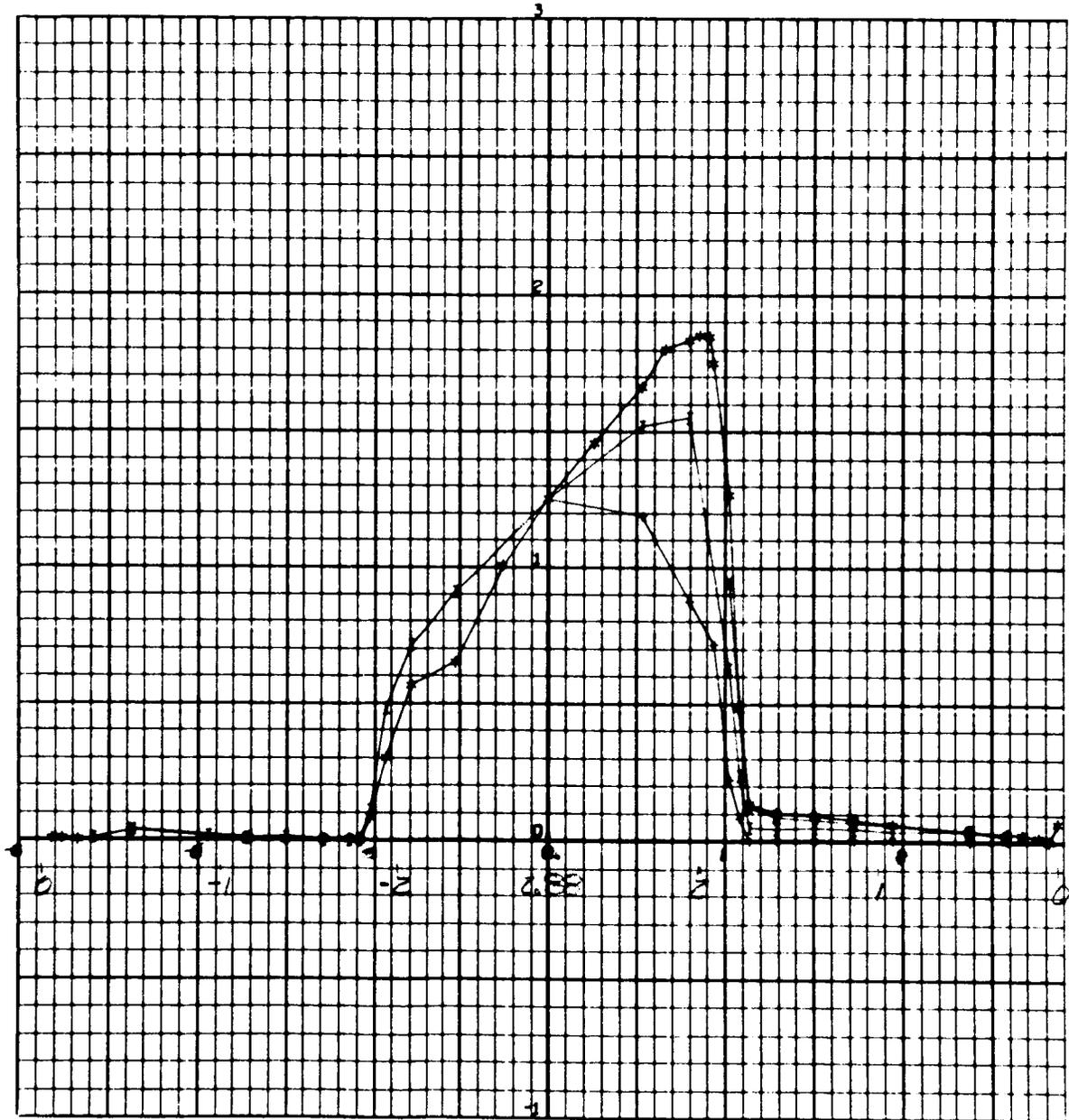
REYNOLDS NUMBER PER INCH  $0.1629 \times 10^{-6}$

ANGLE OF ATTACK 145.08 DEGREES

MACH NO. , 10.18

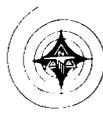
RAY	SYMBOL
0 - 9	*
1 - 7	x
2 - 6	I
4	+
8	C

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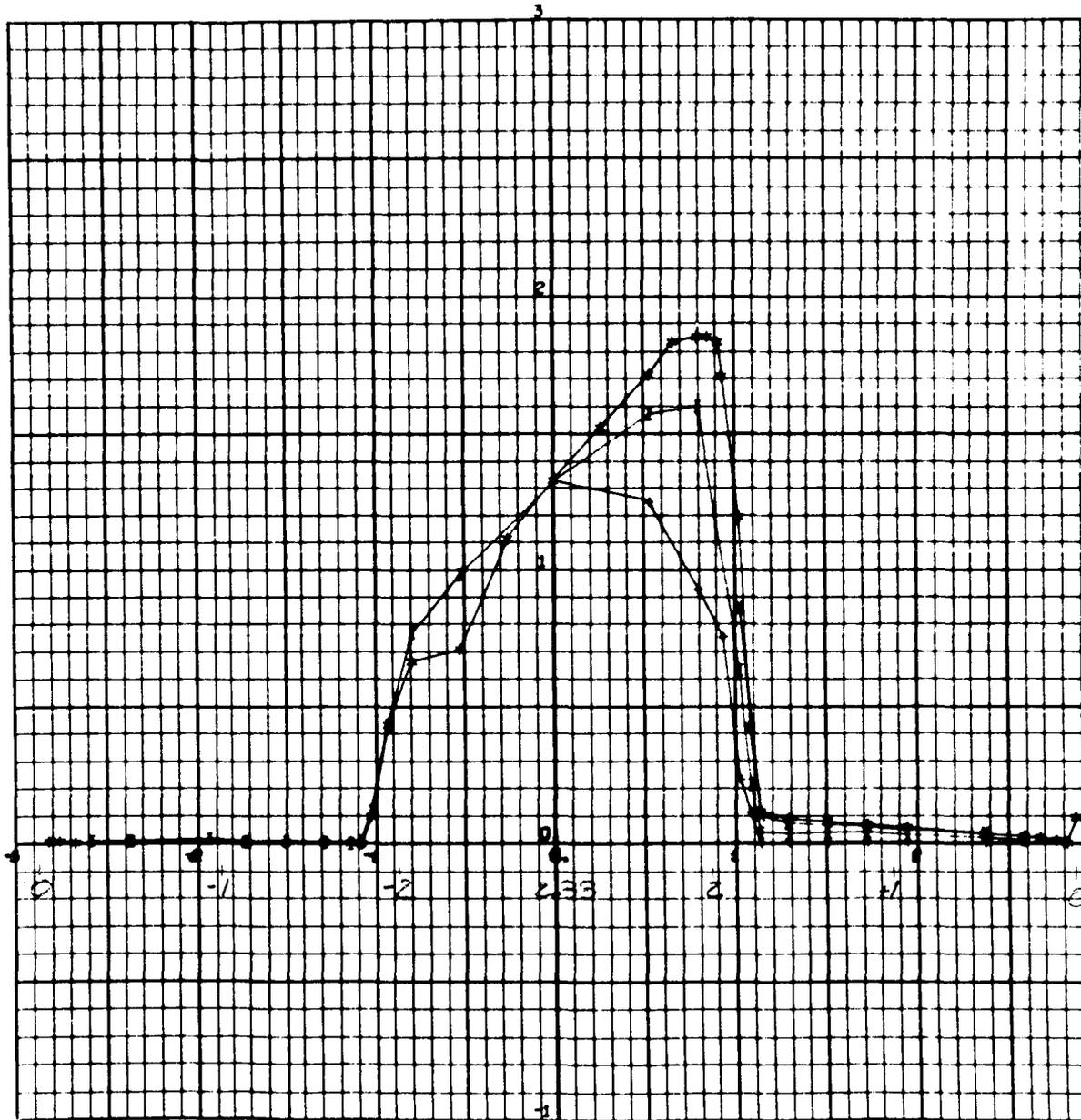
~~CONFIDENTIAL~~

PRESSURE DISTRIBUTION TEST  
APOLLO PS-3  
A.E.D.C. TUNNEL C

CONFIGURATION C2 MACH NO. , 10.18  
GROUP NUMBER 22.  
TOTAL PRESSURE 1608.1 PSIA  
TOTAL TEMPERATURE 1871.0 DEGREES RANKINE  
REYNOLDS NUMBER PER INCH  $0.1657 \times 10^{-6}$   
ANGLE OF ATTACK 147.08 DEGREES

RAY	SYMBOL
0 - 9	*
1 - 7	X
2 - 6	I
4	•
8	C

PRESSURE COEFFICIENT



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PRESSURE DISTRIBUTION TEST

APOLLO PS-3

A.E.D.C. TUNNEL C

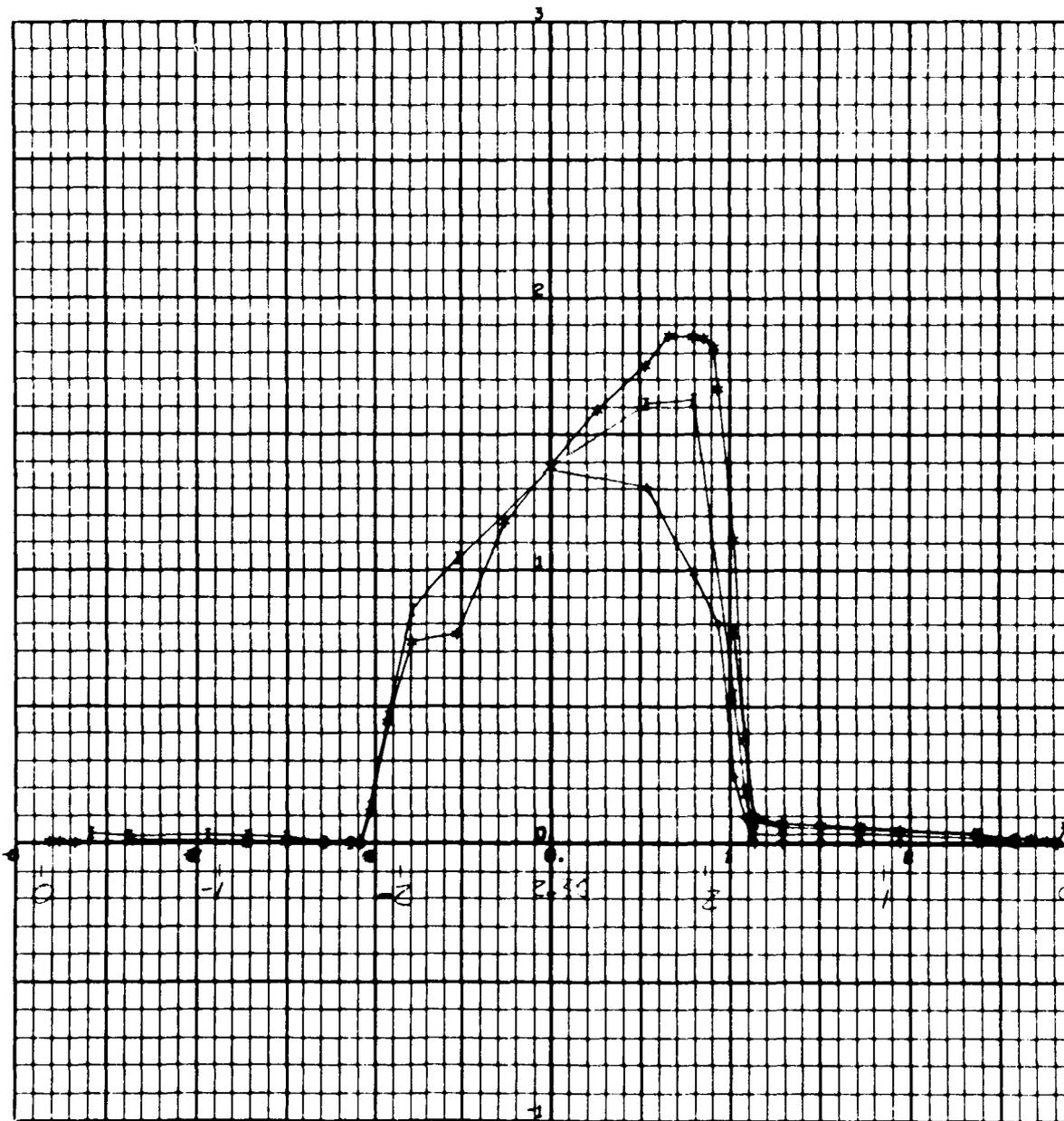
CONFIGURATION C2  
GROUP NUMBER 23.

TOTAL PRESSURE 1601.3 PSIA  
TOTAL TEMPERATURE 1880.0 DEGREES RANKINE  
REYNOLDS NUMBER PER INCH  $0.1636 \times 10^{-6}$   
ANGLE OF ATTACK 149.06 DEGREES

MACH NO. , 10.18

RAY	SYMBOL
0 - 9	*
1 - 7	x
2 - 6	I
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PRESSURE DISTRIBUTION TEST

APOLLO PS-3

A.E.D.C. TUNNEL C

CONFIGURATION C2

GROUP NUMBER 25.

TOTAL PRESSURE 1606.8 PSIA

TOTAL TEMPERATURE 1872.0 DEGREES RANKINE

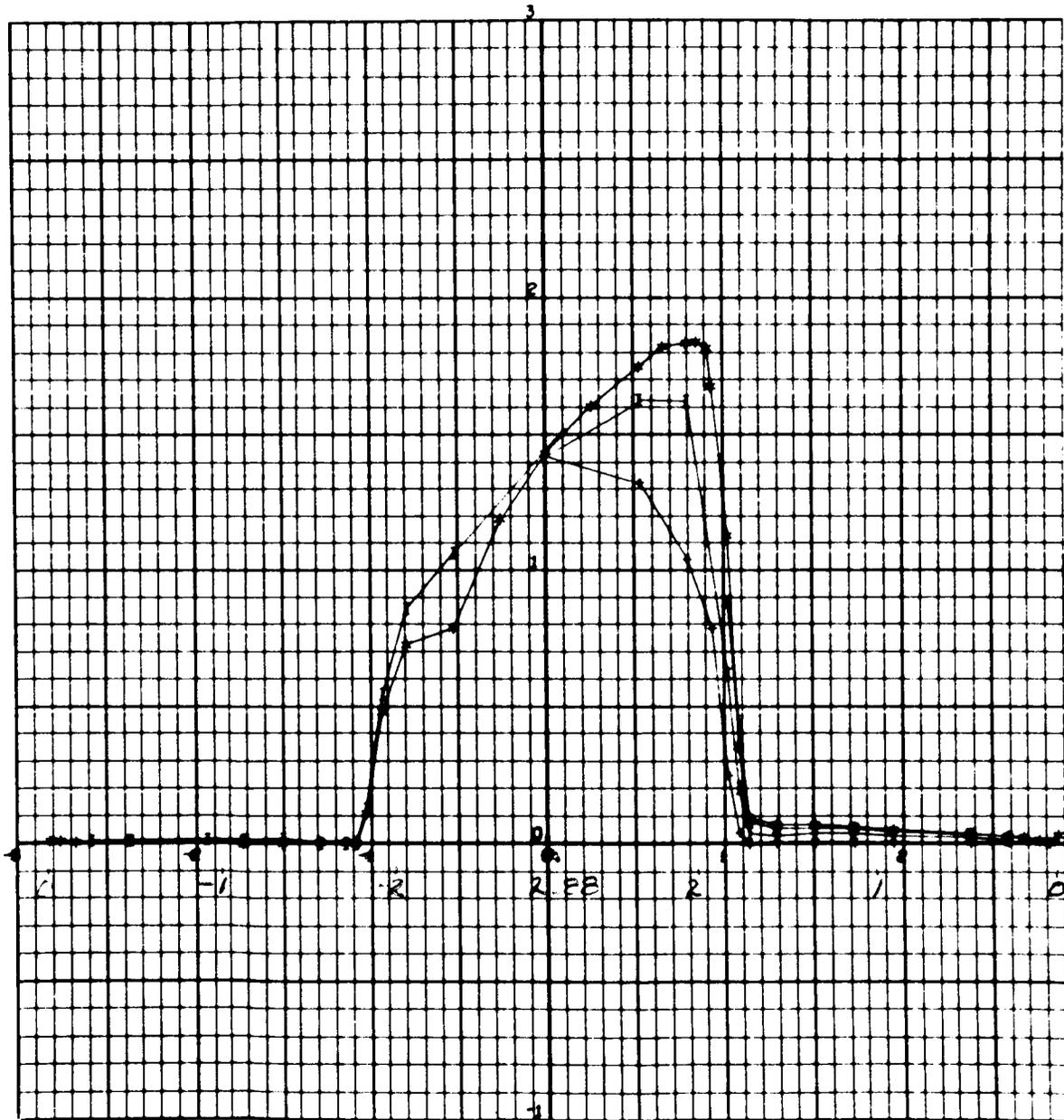
REYNOLDS NUMBER PER INCH  $0.1654 \times 10^{-6}$

ANGLE OF ATTACK 150.02 DEGREES

MACH NO. , 10.18

RAY	SYMBOL
0 - 9	*
1 - 7	x
2 - 6	!
4	o
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PRESSURE COEFFICIENT



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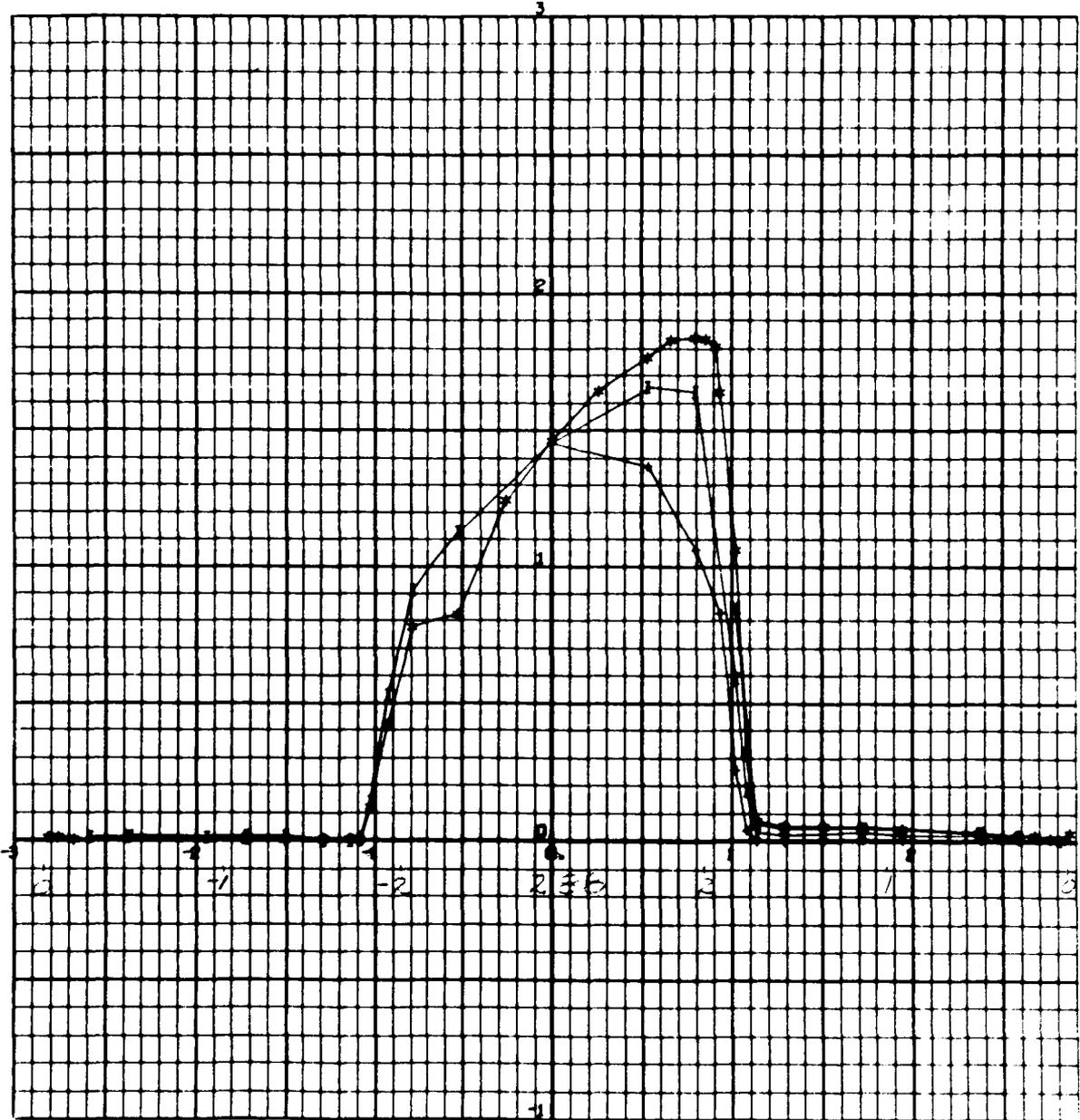
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PRESSURE DISTRIBUTION TEST  
 APOLLO PS-3  
 A.E.D.C. TUNNEL C

CONFIGURATION C2 MACH NO. 10.18  
 GROUP NUMBER 26.  
 TOTAL PRESSURE 1599.0 PSIA  
 TOTAL TEMPERATURE 1870.0 DEGREES RANKINE  
 REYNOLDS NUMBER PER INCH  $0.1649 \times 10^{-6}$   
 ANGLE OF ATTACK 151.99 DEGREES

RAY	SYMBOL
0 - 9	*
1 - 7	x
2 - 6	I
4	+
8	C

PRESSURE COEFFICIENT



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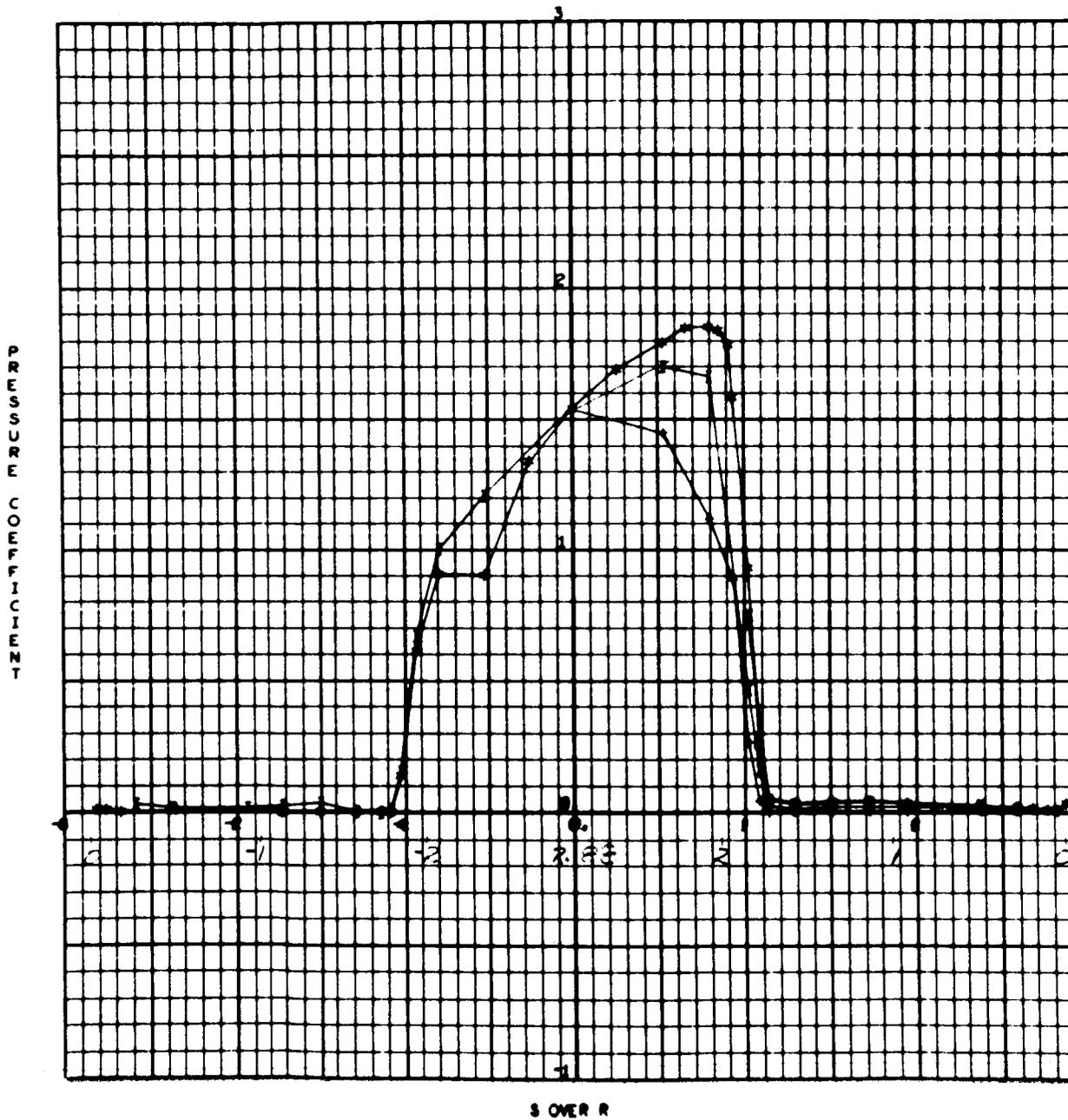
~~CONFIDENTIAL~~

PRESSURE DISTRIBUTION TEST  
 APOLLO PS-3  
 A.E.D.C. TUNNEL C

CONFIGURATION C2  
 GROUP NUMBER 27.  
 TOTAL PRESSURE 1604.6 PSIA  
 TOTAL TEMPERATURE 1804.0 DEGREES RANKINE  
 REYNOLDS NUMBER PER INCH  $0.1633 \times 10^{-6}$   
 ANGLE OF ATTACK 154.95 DEGREES

MACH NO. , 10.10

RAY	SYMBOL
0 - 9	*
1 - 7	X
2 - 6	I
4	•
8	C



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PRESSURE DISTRIBUTION TEST

APOLLO PS-3

A.E.D.C. TUNNEL C

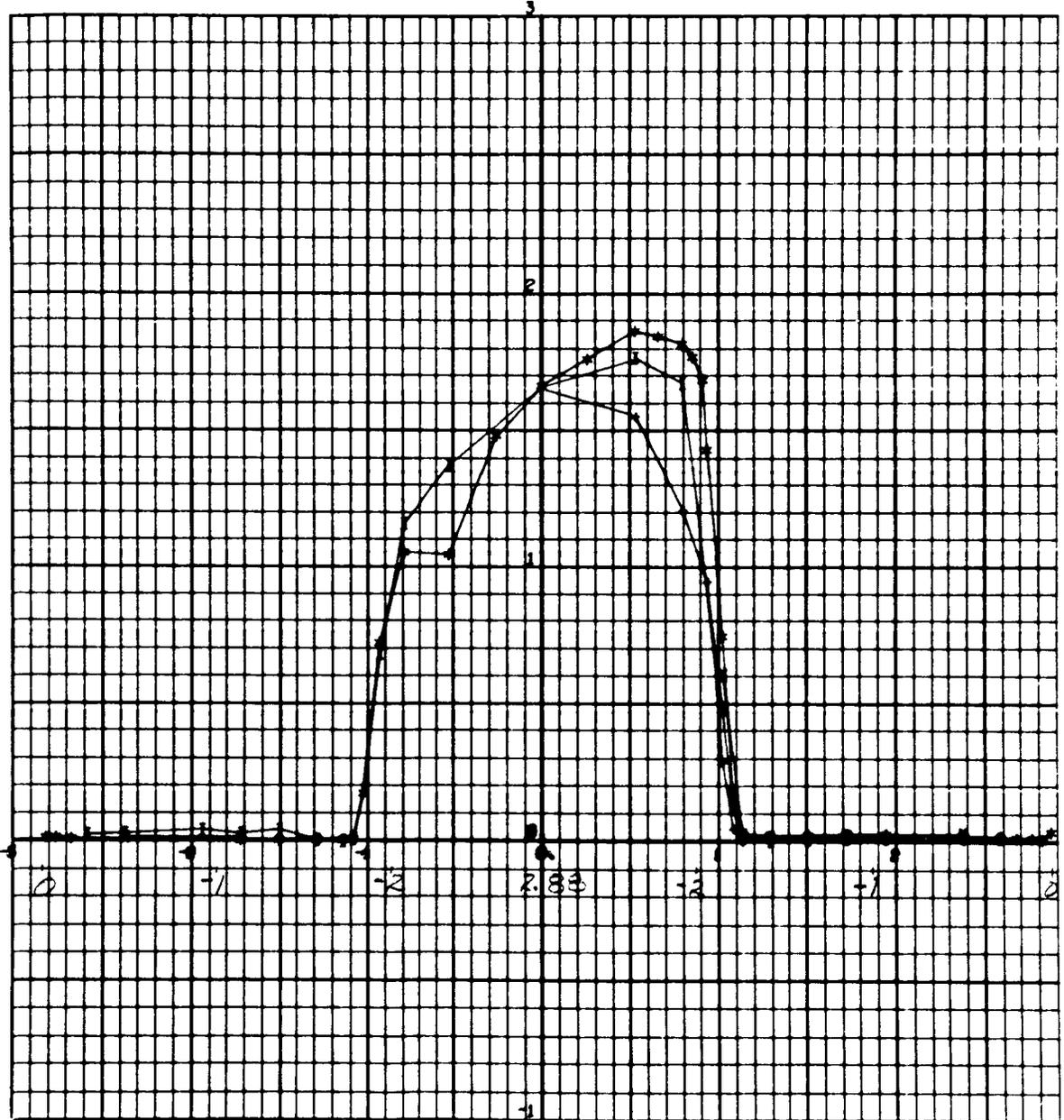
CONFIGURATION C2  
GROUP NUMBER 28.

TOTAL PRESSURE 1607.8 PSIA  
TOTAL TEMPERATURE 1886.0 DEGREES RANKINE  
REYNOLDS NUMBER PER INCH  $0.1633 \times 10^{-6}$   
ANGLE OF ATTACK 160.02 DEGREES

MACH NO. , 10.18

RAY	SYMBOL
0 - 9	*
1 - 7	x
2 - 6	I
4	+
8	C

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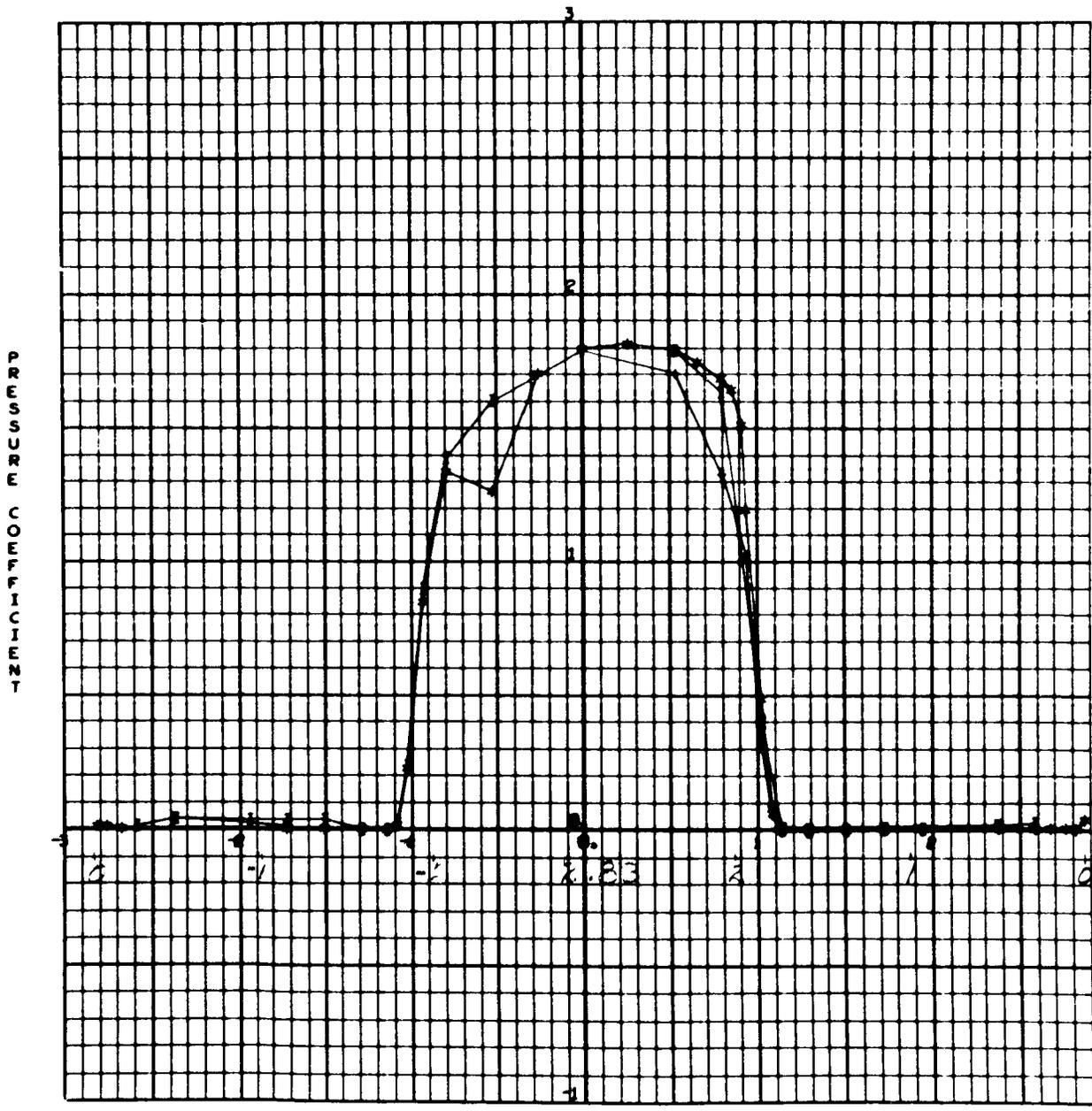
PRESSURE DISTRIBUTION TEST

APOLLO PS-3

A.E.O.C. TUNNEL C

CONFIGURATION C2 MACH NO. , 10.18  
 GROUP NUMBER 30.  
 TOTAL PRESSURE 1601.8 PSIA  
 TOTAL TEMPERATURE 1887.0 DEGREES RANKINE  
 REYNOLDS NUMBER PER INCH  $0.1625 \times 10^{-6}$   
 ANGLE OF ATTACK 169.99 DEGREES

RAY	SYMBOL
0 - 9	*
1 - 7	X
2 - 6	I
4	+
8	C



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PRESSURE DISTRIBUTION TEST

APOLLO PS-3

A.E.D.C. TUNNEL C

CONFIGURATION C2

GROUP NUMBER 31.

TOTAL PRESSURE 1597.8 PSIA

TOTAL TEMPERATURE 1886.0 DEGREES RANKINE

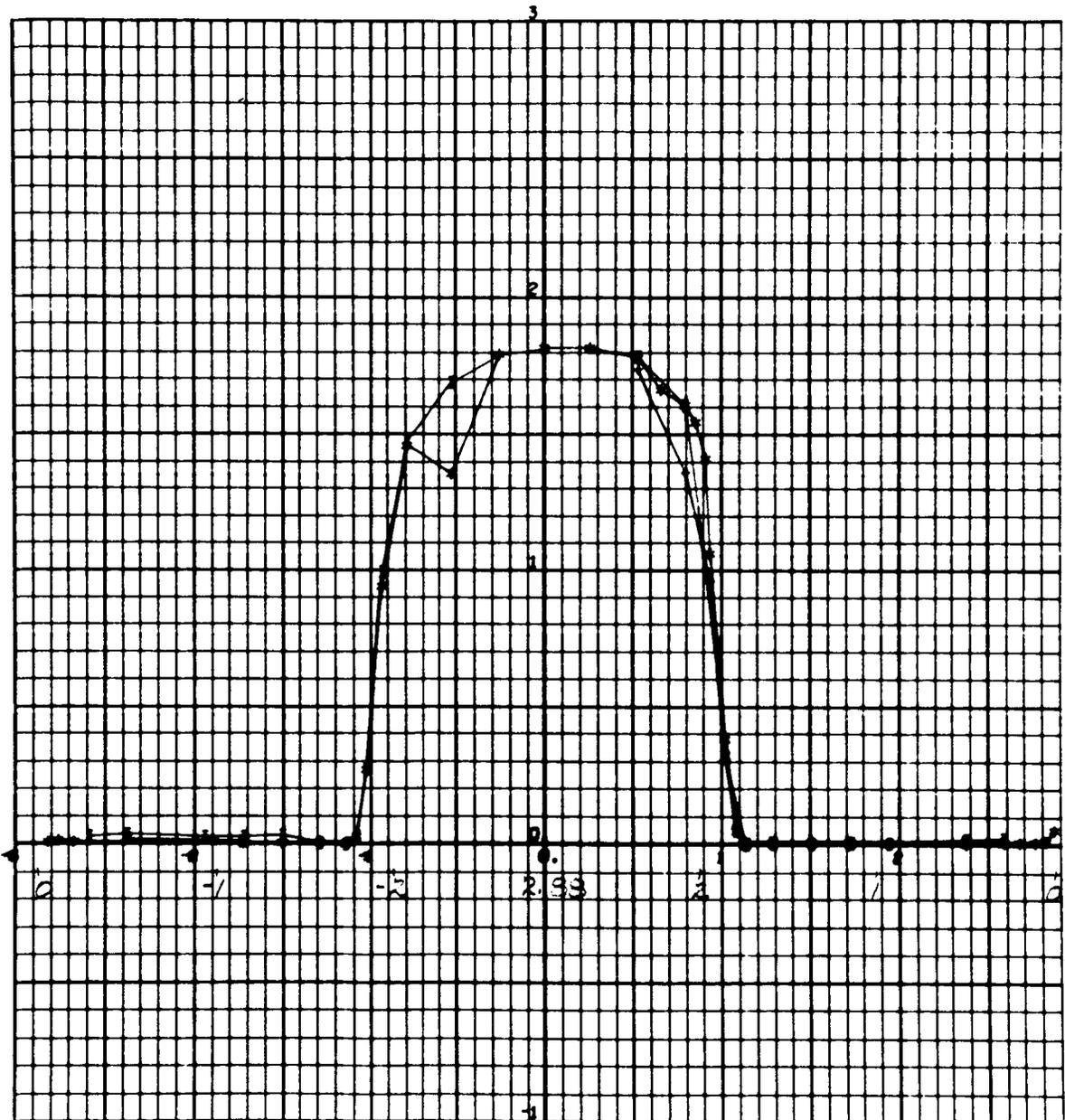
REYNOLDS NUMBER PER INCH  $0.1623 \times 10^{-6}$

ANGLE OF ATTACK 175.08 DEGREES

MACH NO. , 10.18

RAY	SYMBOL
0 - 9	•
1 - 7	X
2 - 6	I
4	+
8	C

PRESSURE COEFFICIENT



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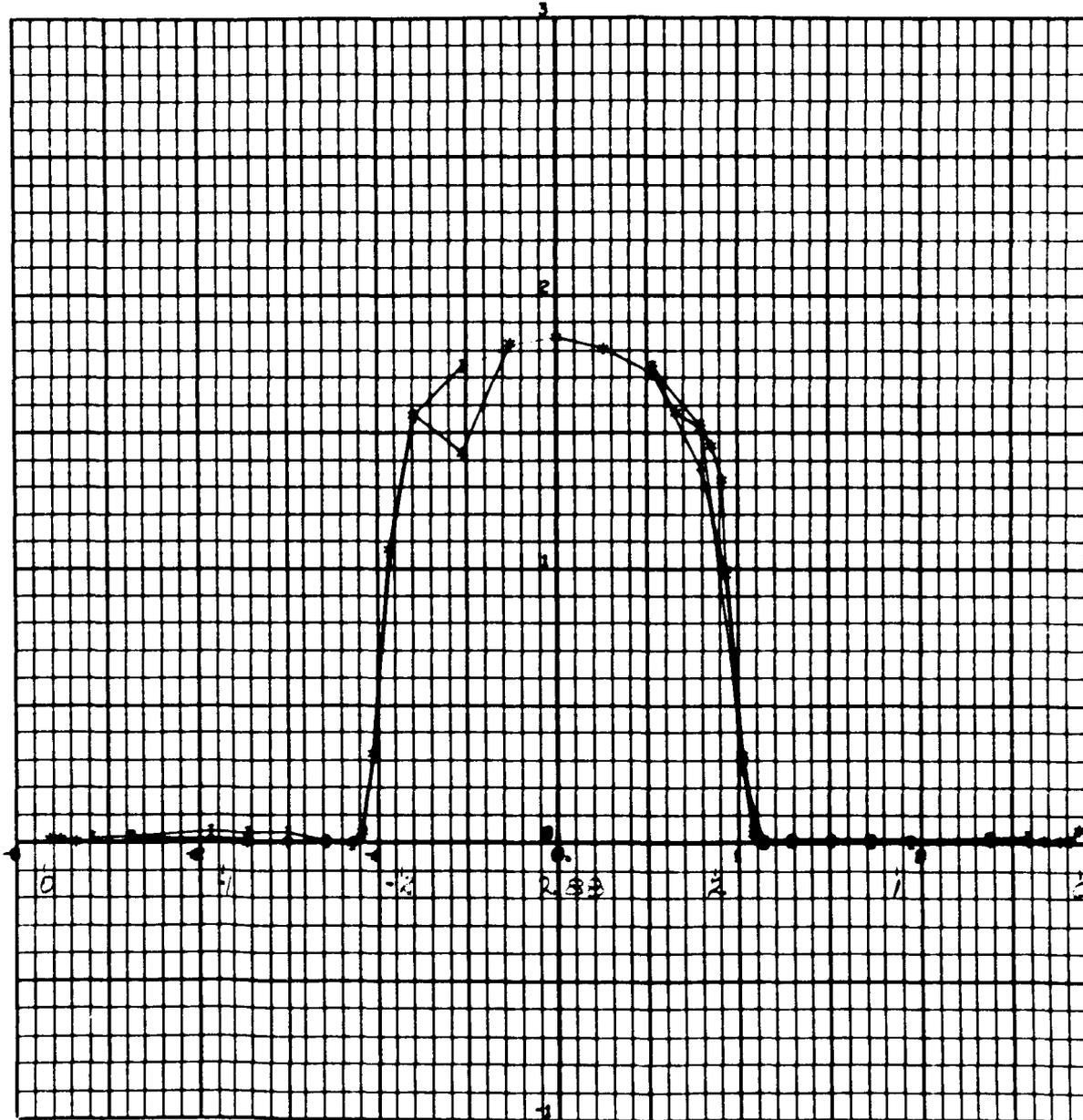
~~CONFIDENTIAL~~



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PRESSURE DISTRIBUTION TEST	CONFIGURATION C2	MACH NO. . 10.18	RAY	SYMBOL
APOLLO PS-3	GROUP NUMBER 32.		0 - 9	*
A.E.D.C. TUNNEL C	TOTAL PRESSURE 1593.8 PSIA		1 - 7	x
	TOTAL TEMPERATURE 1878.0 DEGREES RANKINE		2 - 6	I
	REYNOLDS NUMBER PER INCH 0.1631 X 10 <sup>-6</sup>		4	+
	ANGLE OF ATTACK 179.45 DEGREES		8	C

PRESSURE COEFFICIENT



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LAUNCH ESCAPE VEHICLE

M = 10.0,  $\alpha$  = 0 to 55 Degrees

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PRESSURE DISTRIBUTION TEST  
APOLLO PS-3  
A.E.D.C. TUNNEL C

CONFIGURATION E35 T14 C2 MACH NO. , 10.06  
GROUP NUMBER 16.  
TOTAL PRESSURE 281.6 PSIA  
TOTAL TEMPERATURE 1721.0 DEGREES RANKINE  
REYNOLDS NUMBER PER INCH 0.0340 X 10<sup>-6</sup>  
ANGLE OF ATTACK 0.02 DEGREES

RAY	SYMBOL
0 - 9	*
1 - 7	x
2 - 6	I
4	•
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PRESSURE DISTRIBUTION TEST

APOLLO PS-3

A.E.D.C. TUNNEL C

CONFIGURATION E35 T14 C2 MACH NO. , 10.06

GROUP NUMBER 17.

TOTAL PRESSURE 281.9 PSIA

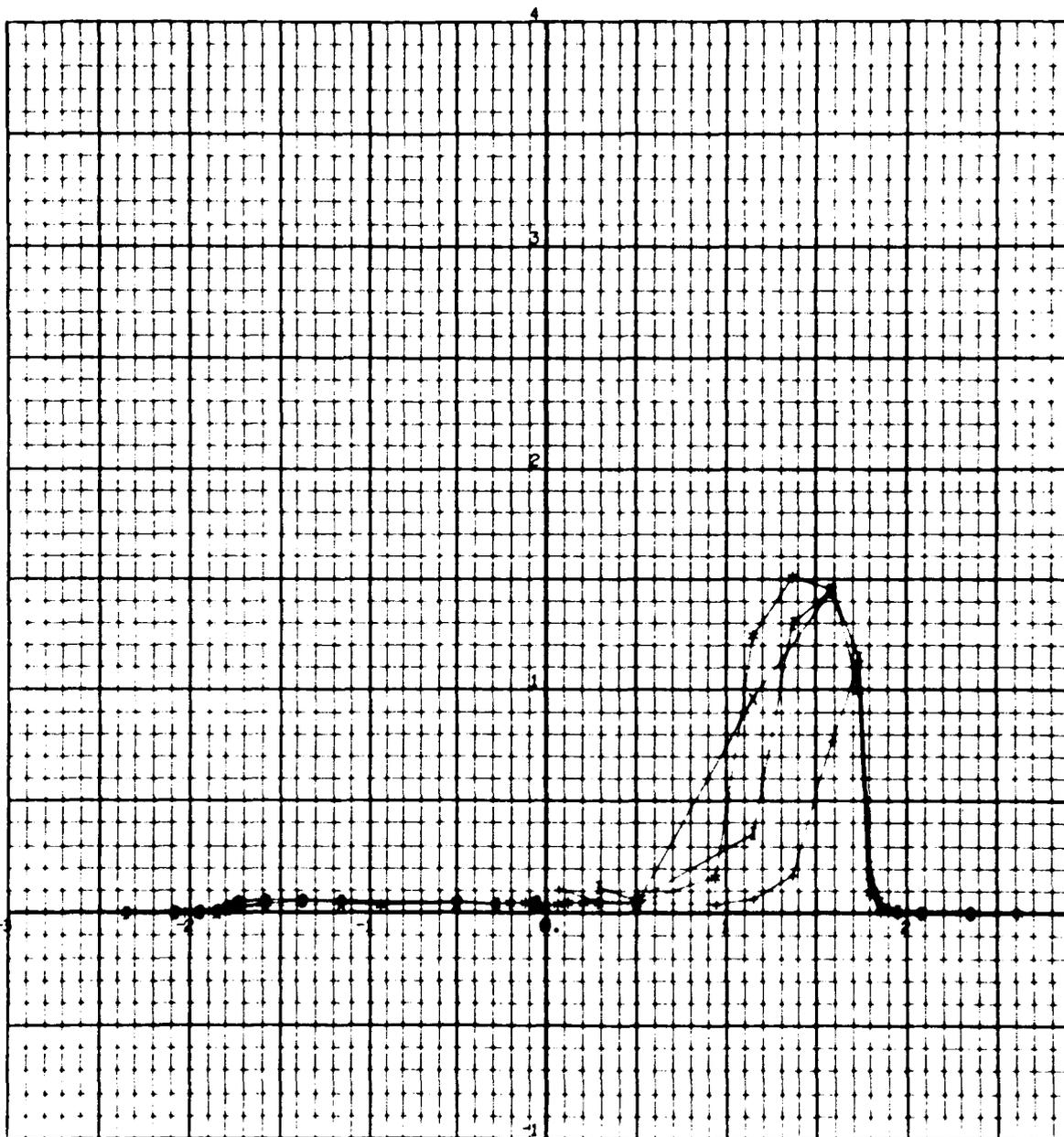
TOTAL TEMPERATURE 1714.0 DEGREES RANKINE

REYNOLDS NUMBER PER INCH  $0.0343 \times 10^{-6}$

ANGLE OF ATTACK 2.99 DEGREES

RAY	SYMBOL
0 - 9	*
1 - 7	x
2 - 6	I
4	•
8	C

PRESSURE COEFFICIENT



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PRESSURE DISTRIBUTION TEST  
APOLLO PS-3  
A.E.D.C. TUNNEL C

CONFIGURATION E35 T14 C2 MACH NO. 10.06  
GROUP NUMBER 18,  
TOTAL PRESSURE 282.8 PSIA  
TOTAL TEMPERATURE 1699.0 DEGREES RANKINE  
REYNOLDS NUMBER PER INCH  $0.0349 \times 10^{-6}$   
ANGLE OF ATTACK 4.95 DEGREES

RAY	SYMBOL
0 - 9	*
1 - 7	x
2 - 6	1
4	+
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PRESSURE DISTRIBUTION TEST

APOLLO PS-3

A.E.D.C. TUNNEL C

CONFIGURATION E35 T14 C2 MACH NO. , 10.06

GROUP NUMBER 19.

TOTAL PRESSURE 280.3 PSIA

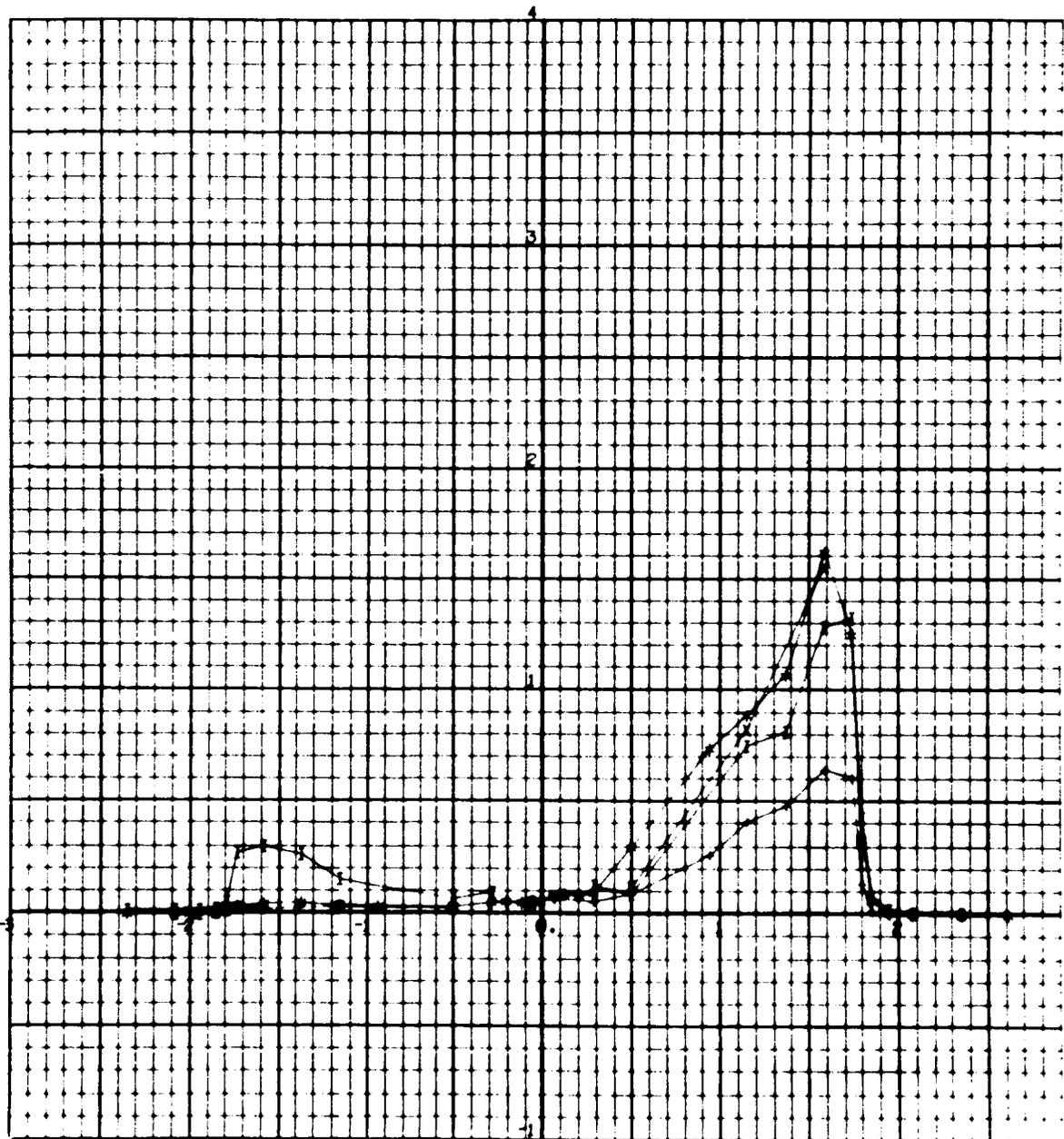
TOTAL TEMPERATURE 1718.0 DEGREES RANKINE

REYNOLDS NUMBER PER INCH  $0.0340 \times 10^{-6}$

ANGLE OF ATTACK 10.00 DEGREES

RAY	SYMBOL
0 - 9	*
1 - 7	X
2 - 6	I
4	+
8	C

PRESSURE COEFFICIENT



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PRESSURE DISTRIBUTION TEST

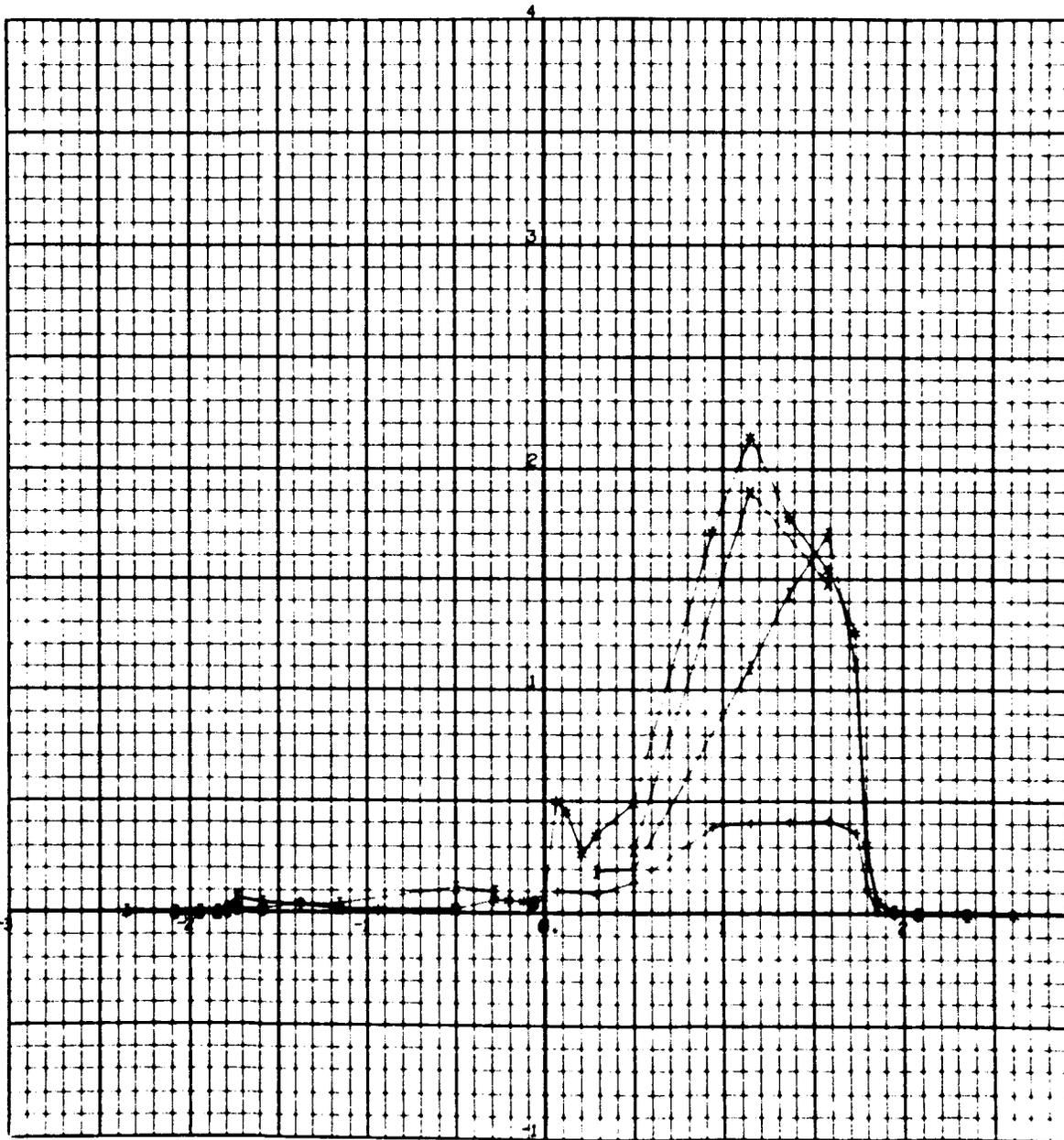
APOLLO PS-3

A.E.D.C. TUNNEL C

CONFIGURATION E35 T14 C2 MACH NO. . 10.06  
 GROUP NUMBER 21.  
 TOTAL PRESSURE 284.8 PSIA  
 TOTAL TEMPERATURE 1706.0 DEGREES RANKINE  
 REYNOLDS NUMBER PER INCH  $0.0349 \times 10^{-6}$   
 ANGLE OF ATTACK 19.97 DEGREES

RAY	SYMBOL
0 - 9	*
1 - 7	X
2 - 6	I
4	•
8	C

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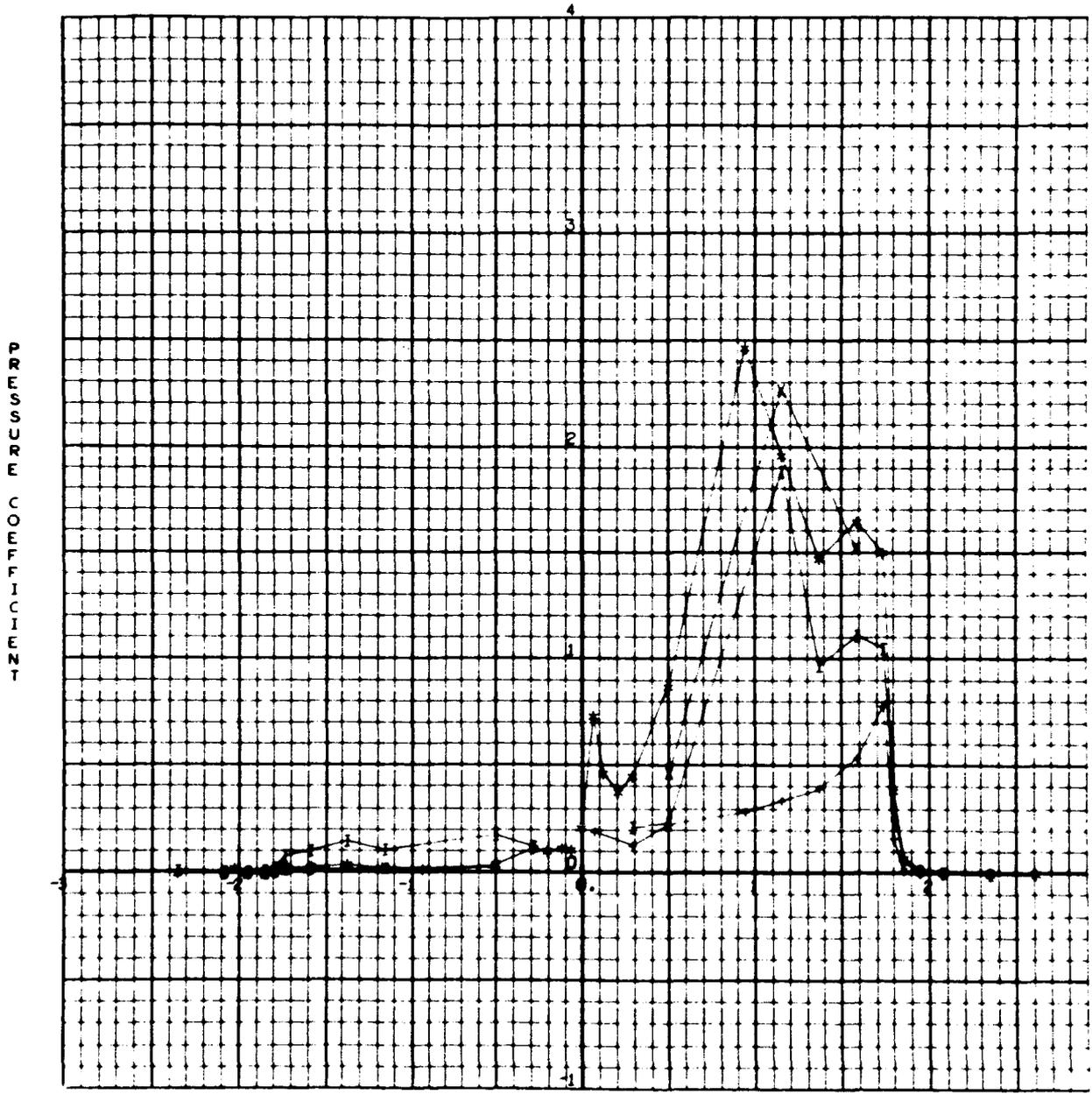
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SID 62-1242



~~CONFIDENTIAL~~

PRESSURE DISTRIBUTION TEST  APOLLO PS-3  A.E.D.C. TUNNEL C	CONFIGURATION E35 T14 C2 MACH NO. , 10.06 GROUP NUMBER 22. TOTAL PRESSURE 284.9 PSIA TOTAL TEMPERATURE 1708.0 DEGREES RANKINE REYNOLDS NUMBER PER INCH 0.0349 X 10 <sup>-6</sup> ANGLE OF ATTACK 25.05 DEGREES	<table border="0"> <tr> <th>RAY</th> <th>SYMBOL</th> </tr> <tr> <td>0 - 9</td> <td>*</td> </tr> <tr> <td>1 - 7</td> <td>X</td> </tr> <tr> <td>2 - 6</td> <td>I</td> </tr> <tr> <td>4</td> <td>•</td> </tr> <tr> <td>8</td> <td>C</td> </tr> </table>	RAY	SYMBOL	0 - 9	*	1 - 7	X	2 - 6	I	4	•	8	C
RAY	SYMBOL													
0 - 9	*													
1 - 7	X													
2 - 6	I													
4	•													
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PRESSURE DISTRIBUTION TEST

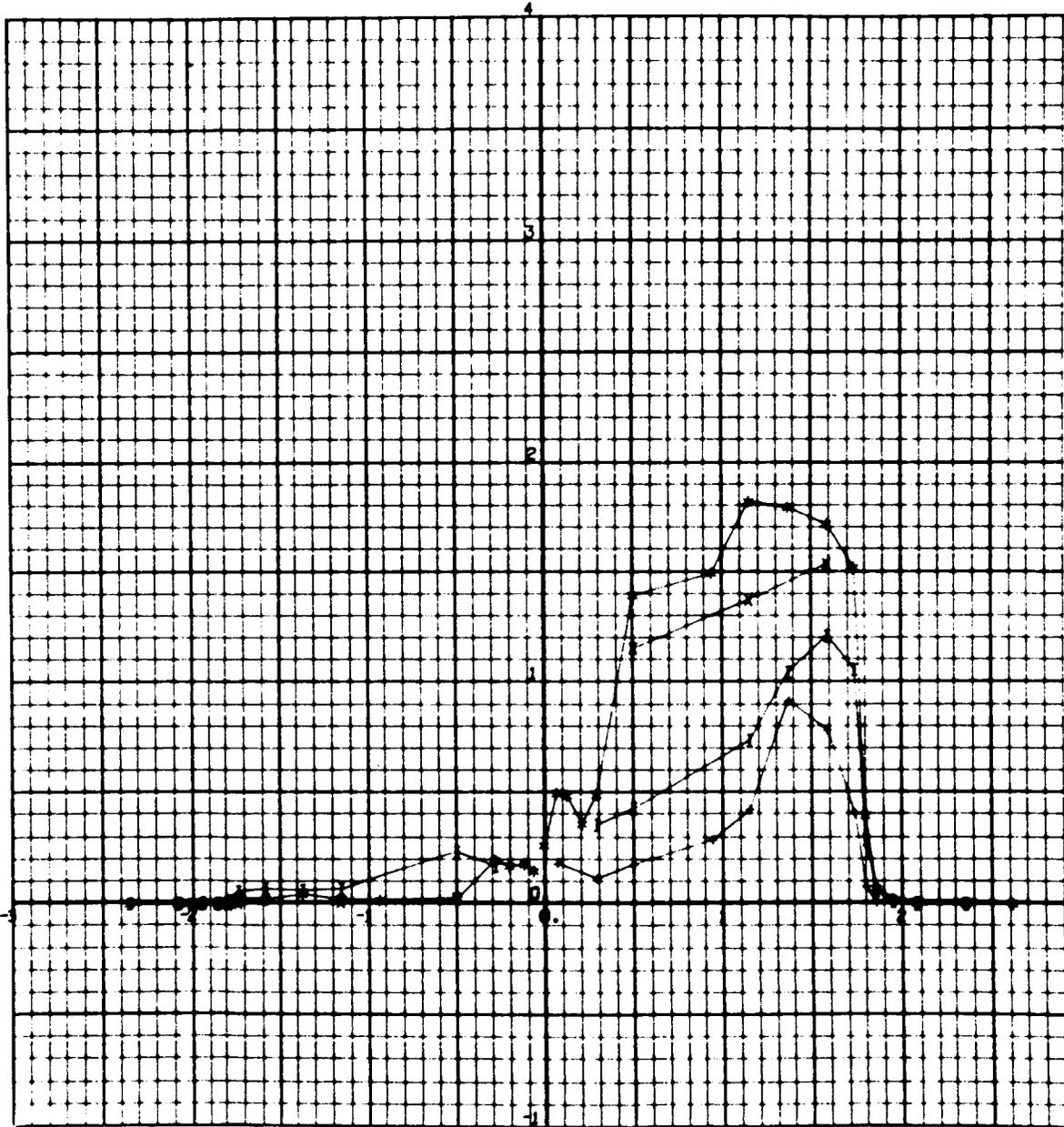
APOLLO PS-3

A.E.D.C. TUNNEL C

CONFIGURATION E35 T14 C2 MACH NO. , 10.06  
 GROUP NUMBER 24.  
 TOTAL PRESSURE 284.7 PSIA  
 TOTAL TEMPERATURE 1696.0 DEGREES RANKINE  
 REYNOLDS NUMBER PER INCH 0.0353 X 10<sup>-6</sup>  
 ANGLE OF ATTACK 30.02 DEGREES

RAY	SYMBOL
0 - 9	#
1 - 7	X
2 - 6	I
4	+
8	C

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PRESSURE DISTRIBUTION TEST

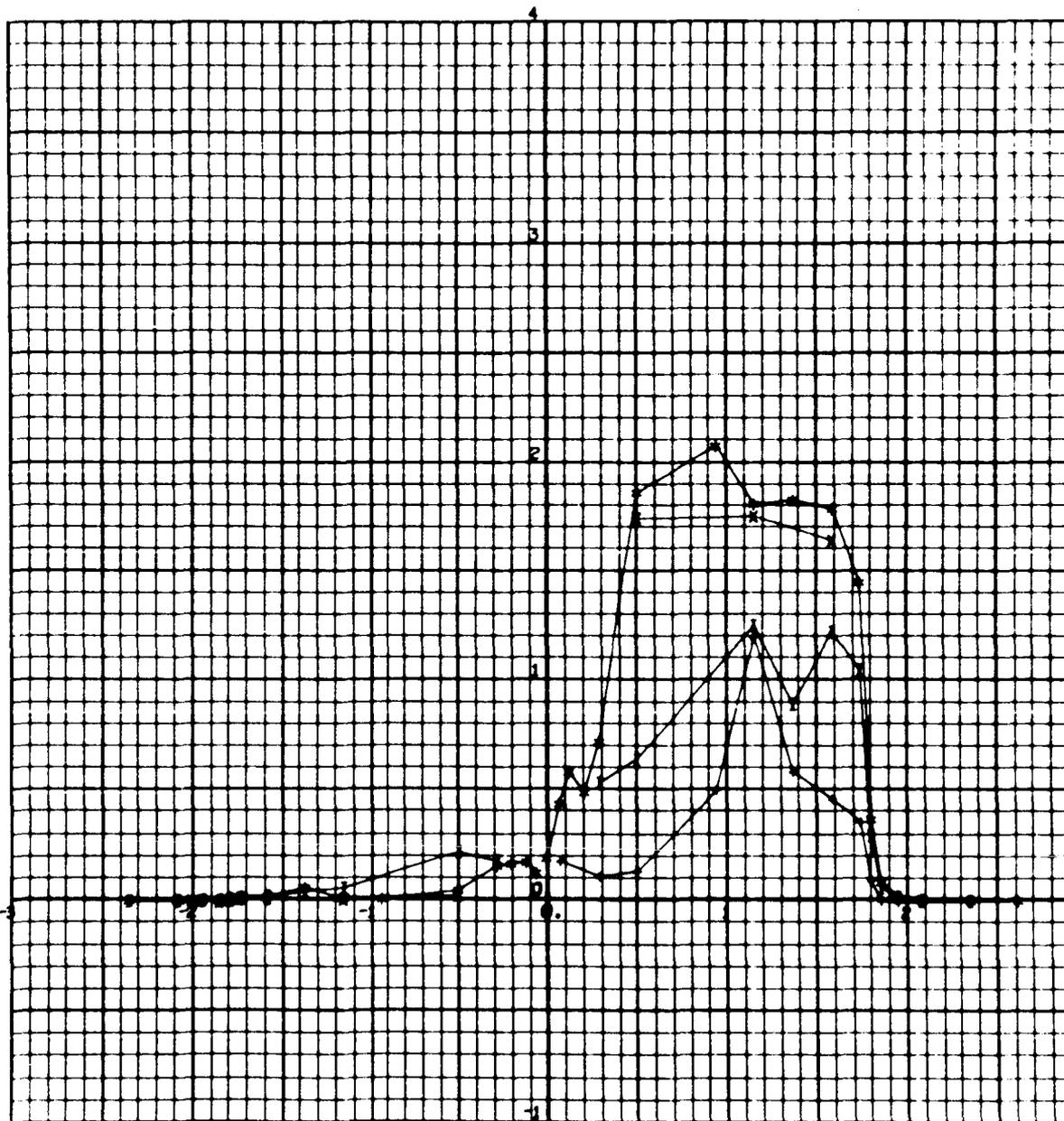
APOLLO PS-3

A.E.D.C. TUNNEL C

CONFIGURATION E35 T14 C2 MACH NO. 10.06  
 GROUP NUMBER 25.  
 TOTAL PRESSURE 284.5 PSIA  
 TOTAL TEMPERATURE 1728.0 DEGREES RANKINE  
 REYNOLDS NUMBER PER INCH  $0.0341 \times 10^{-6}$   
 ANGLE OF ATTACK 34.94 DEGREES

RAY	SYMBOL
0 - 9	*
1 - 7	x
2 - 6	I
4	+
8	C

PRESSURE COEFFICIENT



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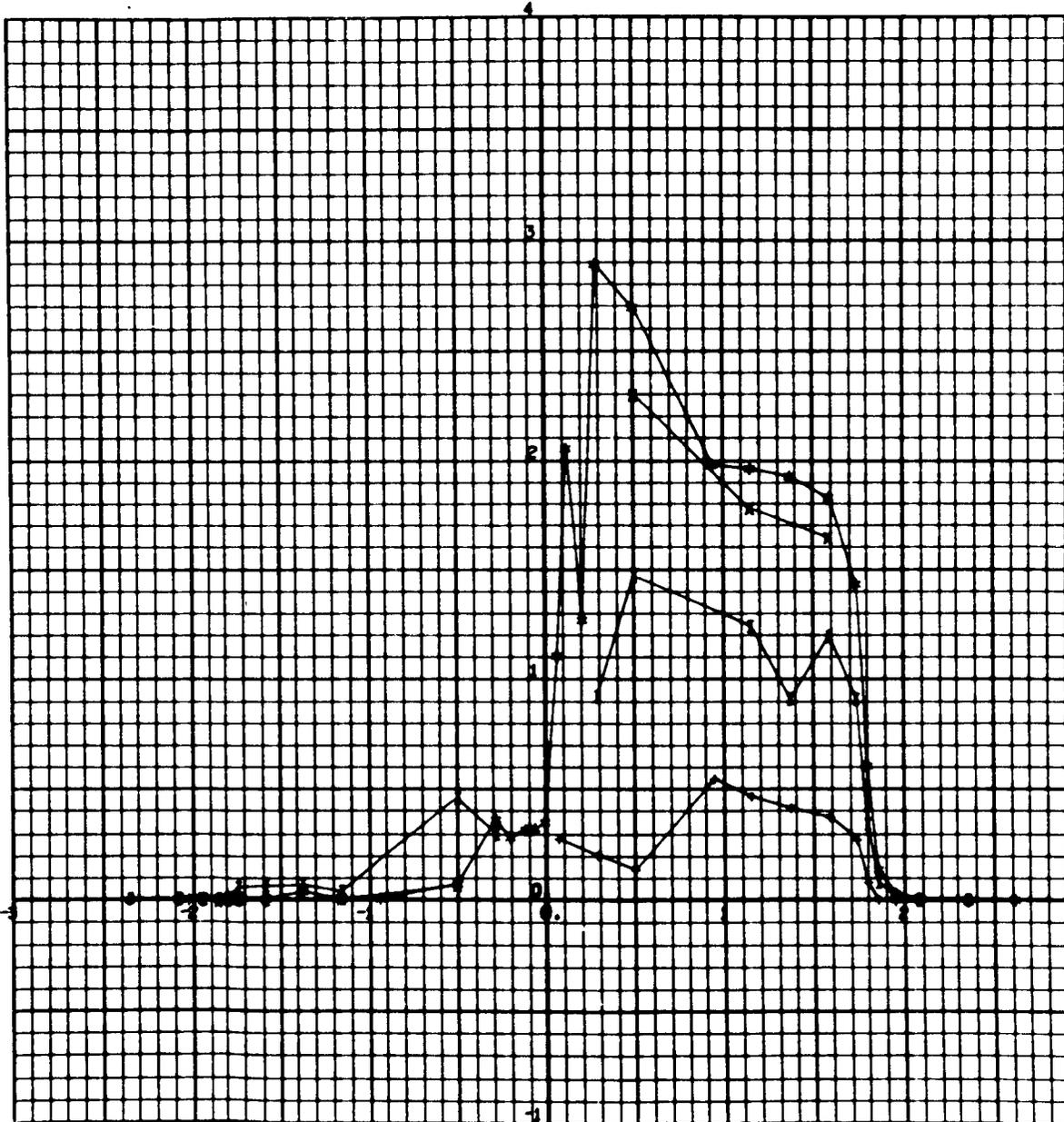
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PRESSURE DISTRIBUTION TEST  
 APOLLO PS-3  
 A.E.D.C. TUNNEL C

CONFIGURATION E35 T14 C2 MACH NO. , 10.06  
 GROUP NUMBER 27.  
 TOTAL PRESSURE 283.9 PSIA  
 TOTAL TEMPERATURE 1726.0 DEGREES RANKINE  
 REYNOLDS NUMBER PER INCH 0.0341 X 10<sup>-6</sup>  
 ANGLE OF ATTACK 45.01 DEGREES

RAY	SYMBOL
0 - 9	*
1 - 7	X
2 - 6	I
4	+
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PRESSURE DISTRIBUTION TEST

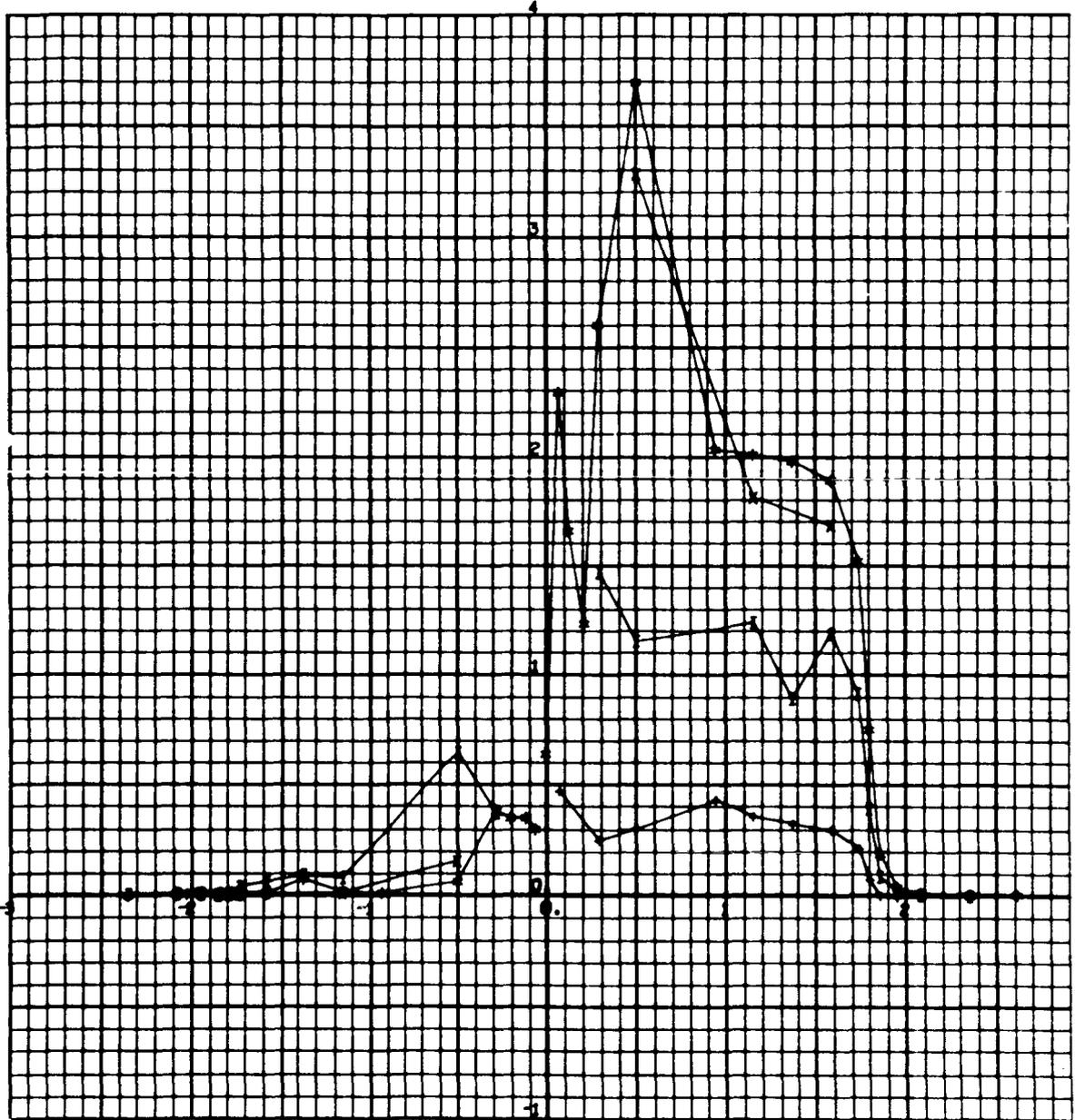
APOLLO PS-3

A.E.D.C. TUNNEL C

CONFIGURATION E35 T14 C2 MACH NO. . 10.06  
 GROUP NUMBER 28.  
 TOTAL PRESSURE 283.2 PSIA  
 TOTAL TEMPERATURE 1720.0 DEGREES RANKINE  
 REYNOLDS NUMBER PER INCH  $0.0342 \times 10^{-6}$   
 ANGLE OF ATTACK 49.96 DEGREES

RAY	SYMBOL
0 - 9	*
1 - 7	x
2 - 6	I
4	+
8	C

PRESSURE COEFFICIENT



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PRESSURE DISTRIBUTION TEST

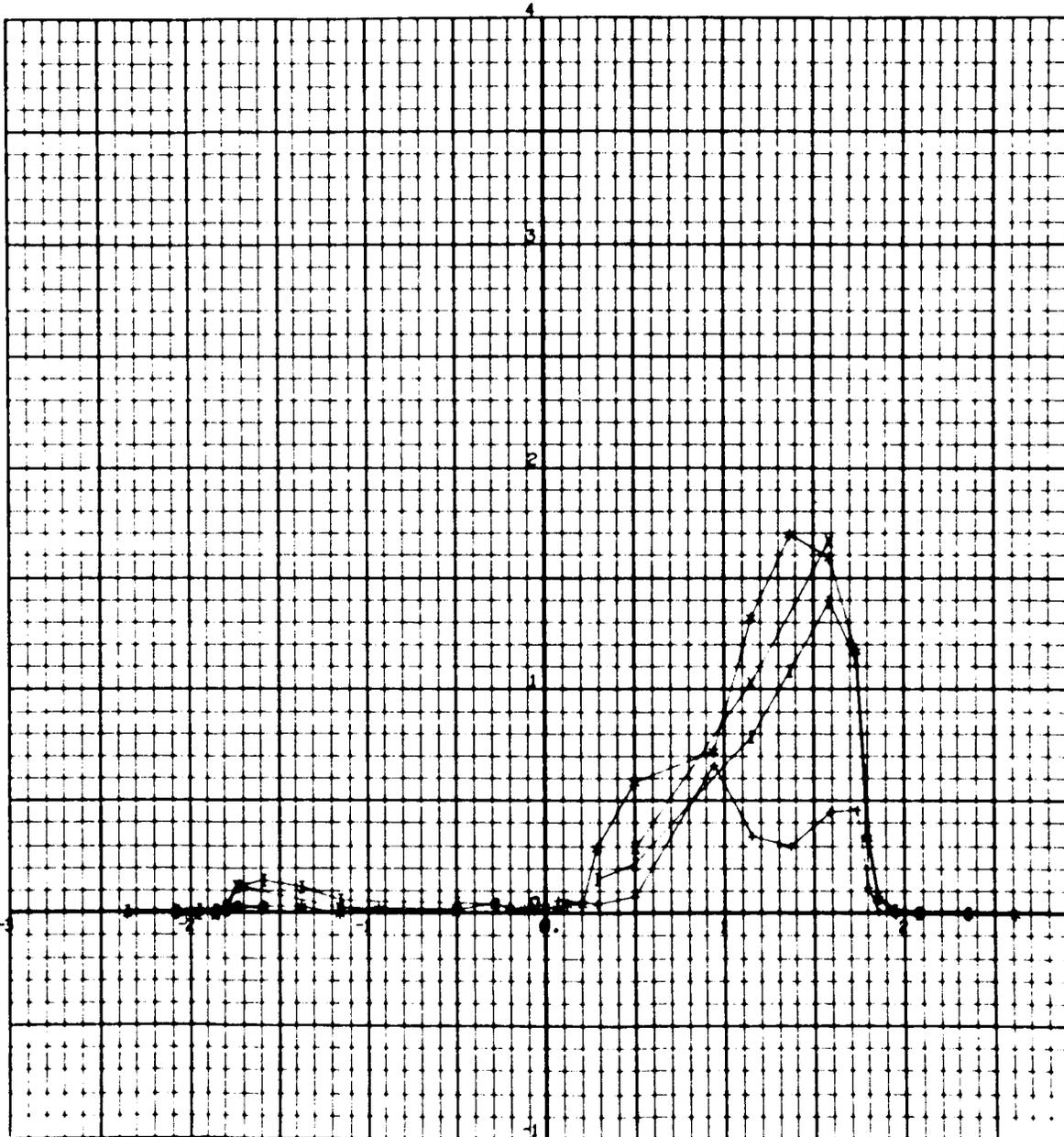
APOLLO PS-3

A.E.D.C. TUNNEL C

CONFIGURATION E35 T14 C2 MACH NO. , 10.06  
 GROUP NUMBER 20.  
 TOTAL PRESSURE 284.0 PSIA  
 TOTAL TEMPERATURE 1704.0 DEGREES RANKINE  
 REYNOLDS NUMBER PER INCH  $0.0349 \times 10^{-6}$   
 ANGLE OF ATTACK 15.02 DEGREES

RAY	SYMBOL
0 - 9	*
1 - 7	X
2 - 6	I
4	+
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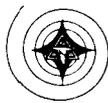


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COMMAND WITH SERVICE MODULE

M = 10.0,  $\alpha$  = 0 to 60 Degrees

~~CONFIDENTIAL~~



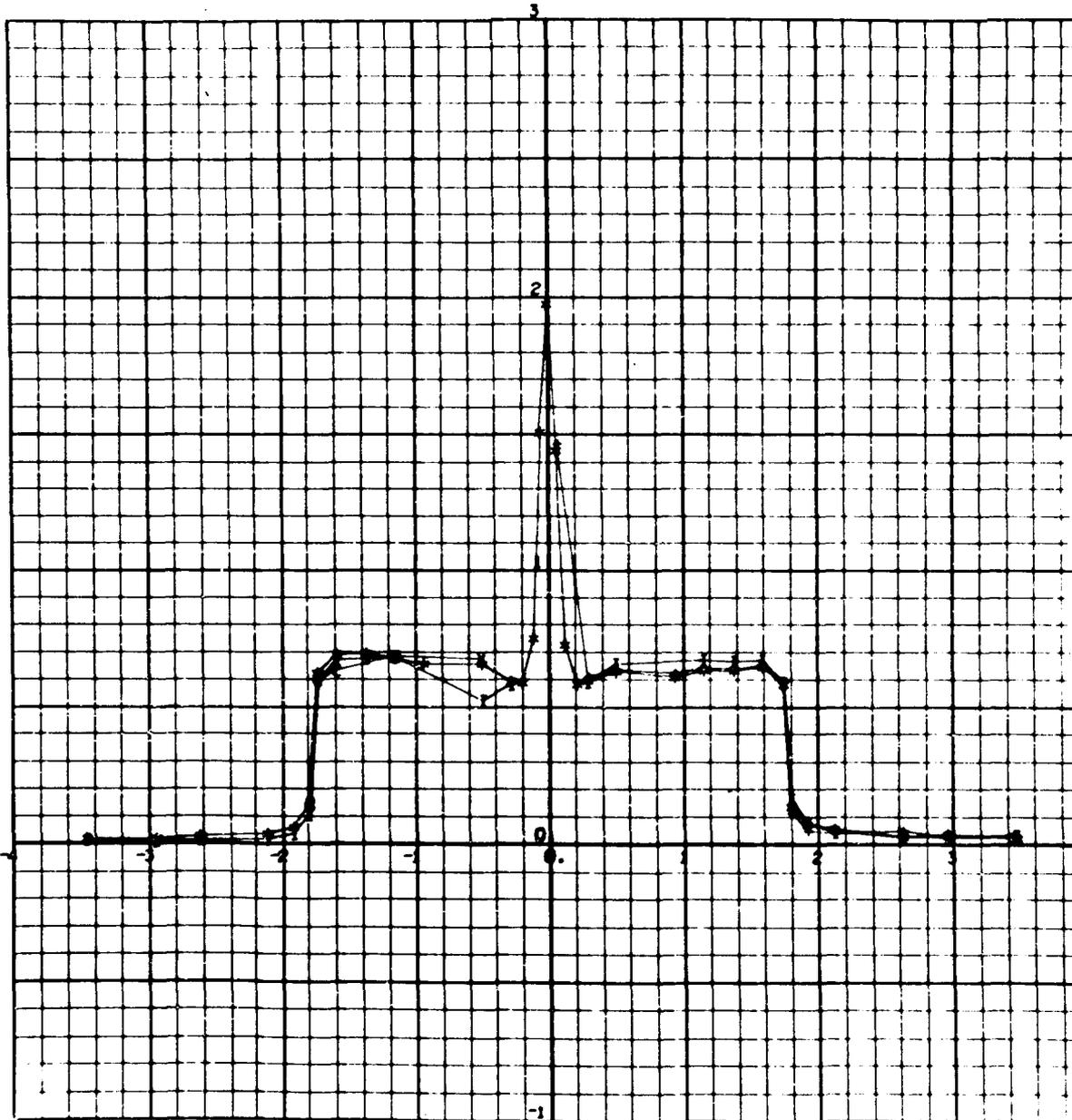
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PRESSURE DISTRIBUTION TEST  
 APOLLO PS-3  
 A.E.D.C. TUNNEL C

CONFIGURATION C25  
 GROUP NUMBER 8.  
 TOTAL PRESSURE 202.9 PSIA  
 TOTAL TEMPERATURE 1660.0 DEGREES RANKINE  
 REYNOLDS NUMBER PER INCH 0.0262 X 10<sup>6</sup>  
 ANGLE OF ATTACK -0. DEGREES

RAY	SYMBOL
0 - 9	*
1 - 7	X
2 - 6	I
4	+
8	C

PRESSURE COEFFICIENT



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PRESSURE DISTRIBUTION TEST

APOLLO PS-3

A.E.D.C. TUNNEL C

CONFIGURATION C2S

GROUP NUMBER 9.

TOTAL PRESSURE 202.2 PSIA

TOTAL TEMPERATURE 1663.0 DEGREES RANKINE

REYNOLDS NUMBER PER INCH  $0.0261 \times 10^{-6}$

ANGLE OF ATTACK 2.99 DEGREES

MACH NO. , 10.04

RAY

0 - 9

1 - 7

2 - 6

4

8

SYMBOL

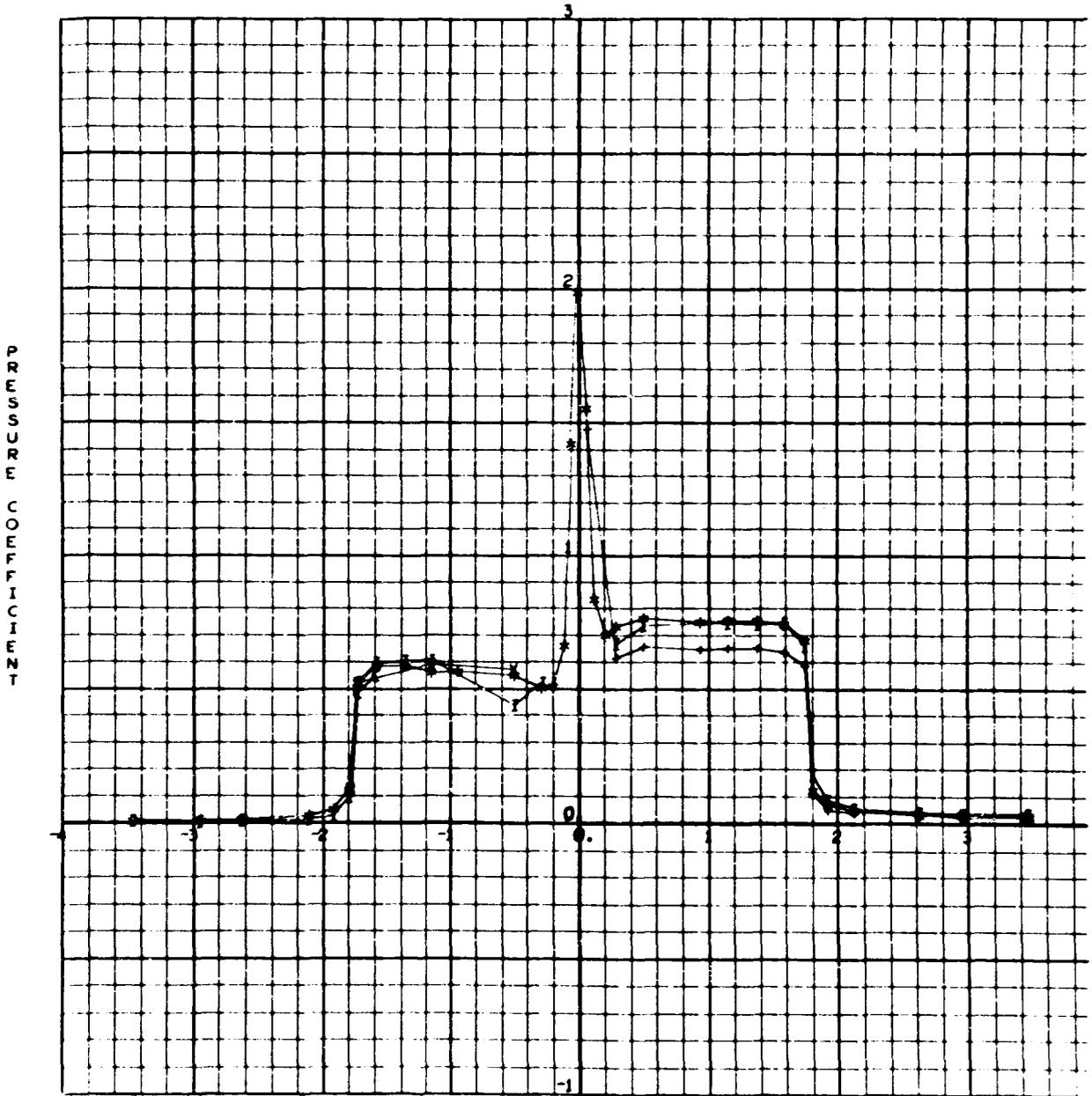
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PRESSURE DISTRIBUTION TEST

APOLLO PS-3

A.E.D.C. TUNNEL C

CONFIGURATION C2S

GROUP NUMBER 10.

TOTAL PRESSURE 201.9 PSIA

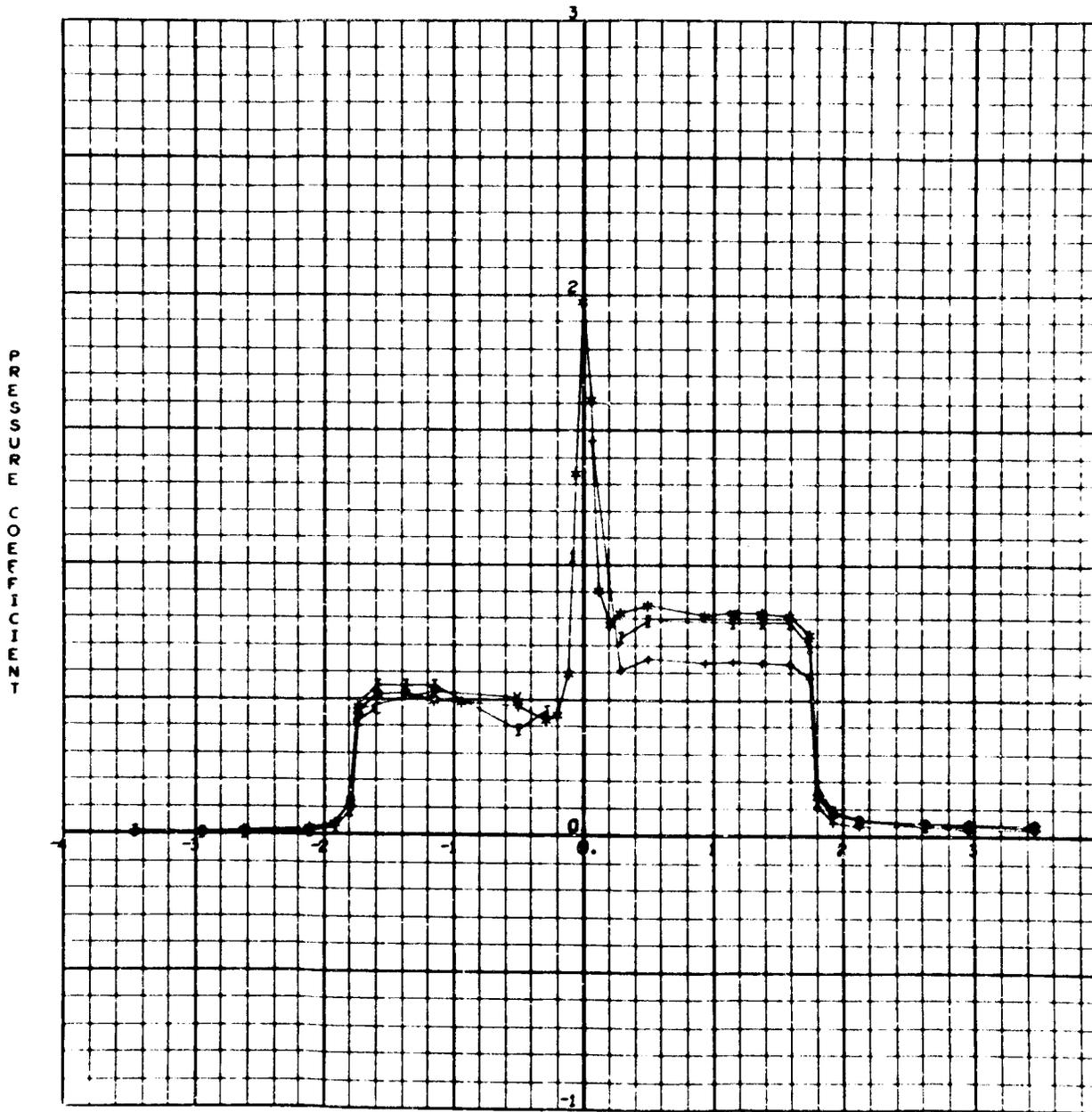
TOTAL TEMPERATURE 1660.0 DEGREES RANKINE

REYNOLDS NUMBER PER INCH 0.0261 X 10<sup>-6</sup>

ANGLE OF ATTACK 4.94 DEGREES

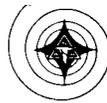
MACH NO. , 10.04

RAY	SYMBOL
0 - 9	*
1 - 7	X
2 - 6	I
4	+
8	C



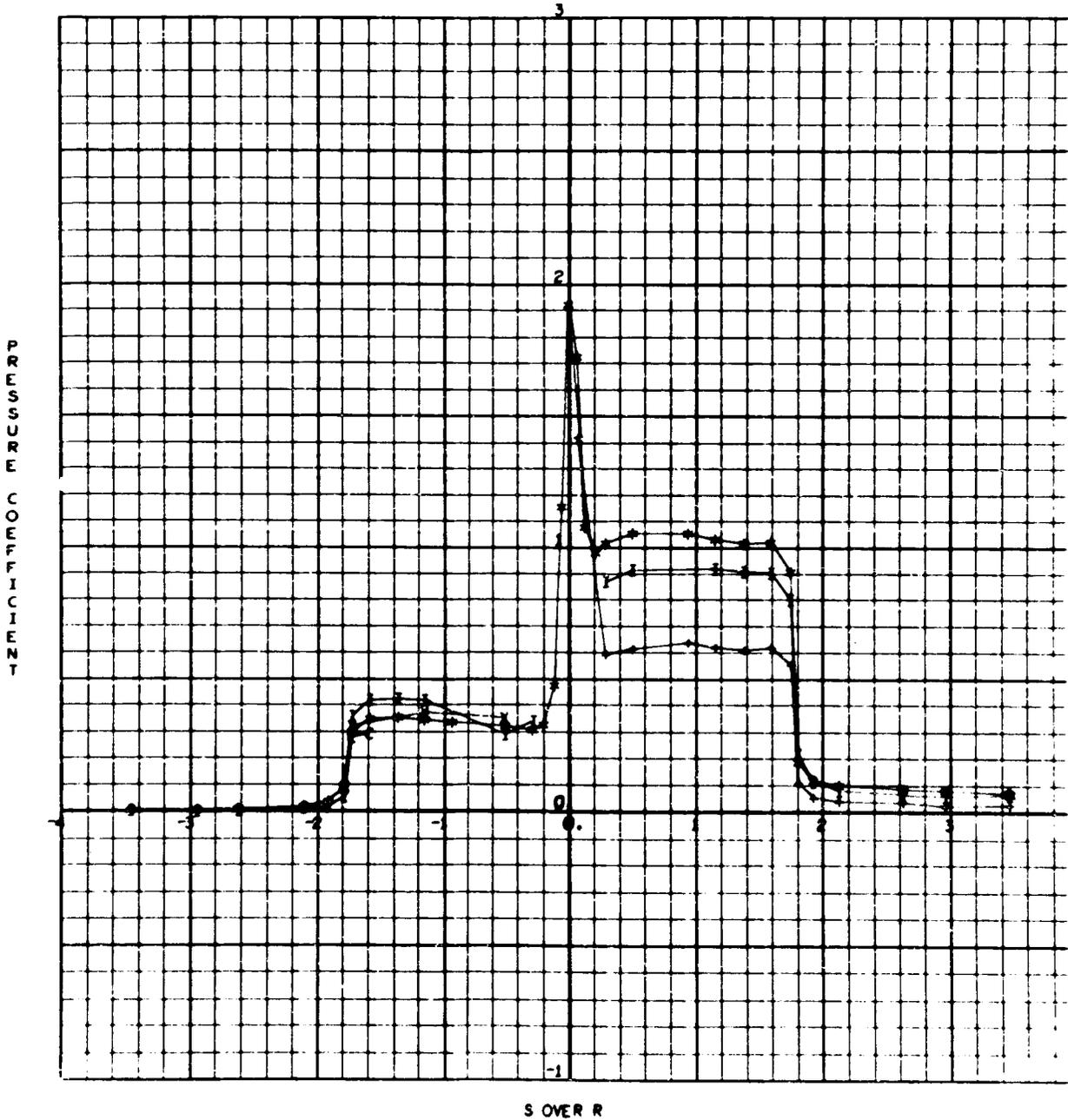
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PRESSURE DISTRIBUTION TEST	CONFIGURATION C2S	MACH NO. , 10.04	RAY	SYMBOL
APOLLO PS-3	GROUP NUMBER 11.	TOTAL PRESSURE 202.0 PSIA	0 - 9	*
A.E.D.C. TUNNEL C	TOTAL TEMPERATURE 1663.0 DEGREES RANKINE	REYNOLDS NUMBER PER INCH 0.0260 X 10 <sup>-6</sup>	1 - 7	X
	ANGLE OF ATTACK 9.96 DEGREES		2 - 6	I
			4	+
			8	C



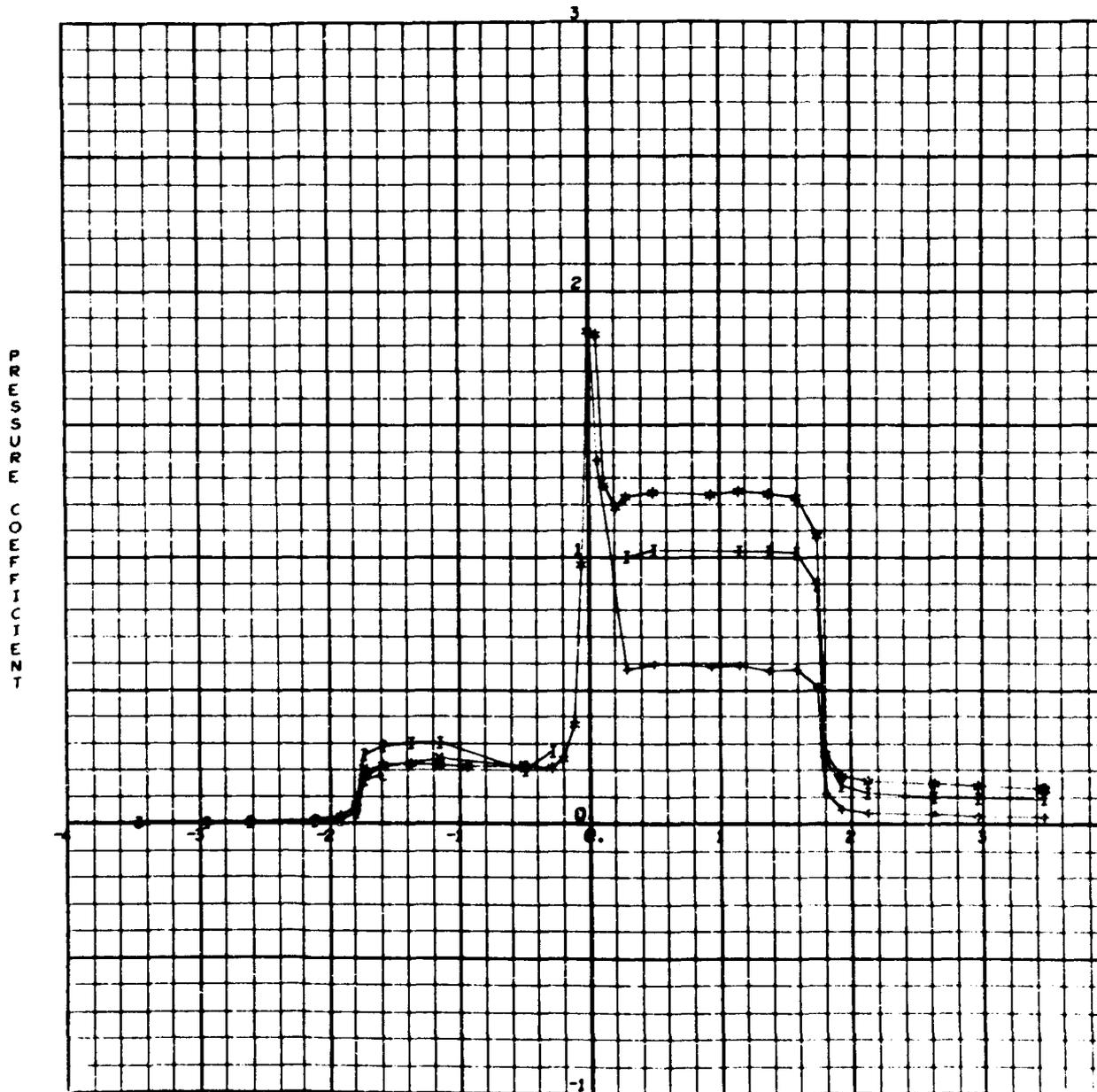


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PRESSURE DISTRIBUTION TEST  
 APOLLO PS-3  
 A.E.D.C. TUNNEL C

CONFIGURATION C25  
 GROUP NUMBER 12.  
 TOTAL PRESSURE 200.9 PSIA  
 TOTAL TEMPERATURE 1669.0 DEGREES RANKINE  
 REYNOLDS NUMBER PER INCH  $0.0257 \times 10^{-6}$   
 ANGLE OF ATTACK 14.99 DEGREES

RAY	SYMBOL
0 - 9	*
1 - 7	x
2 - 6	I
4	+
8	C



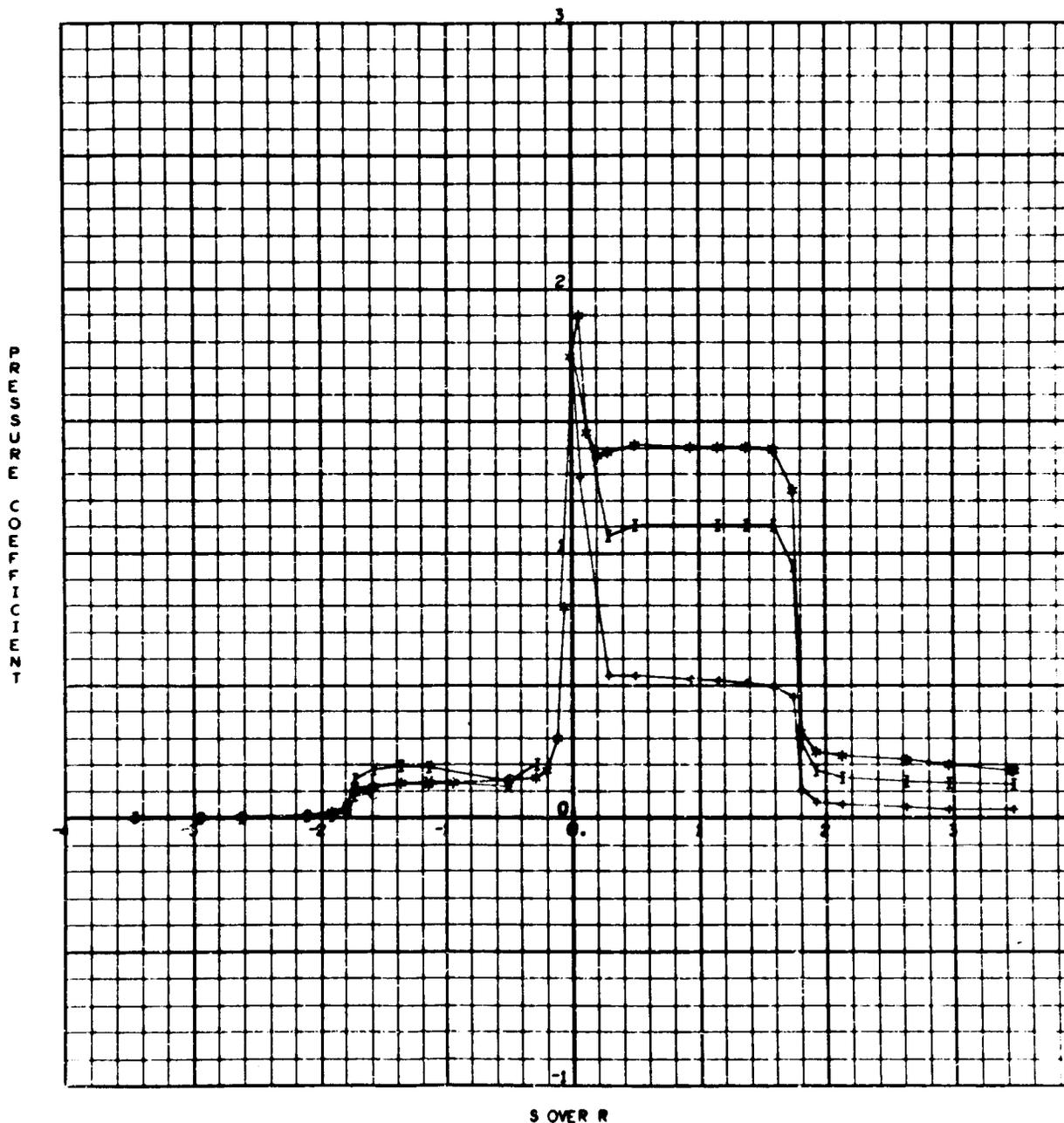
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PRESSURE DISTRIBUTION TEST APOLLO PS-3 A.E.D.C. TUNNEL C	CONFIGURATION C25	MACH NO. , 10.04	RAY	SYMBOL
	GROUP NUMBER 13.		0 - 9	*
	TOTAL PRESSURE 199.1 PSIA		1 - 7	x
	TOTAL TEMPERATURE 1677.0 DEGREES RANKINE		2 - 6	I
	REYNOLDS NUMBER PER INCH $0.0253 \times 10^{-6}$		4	+
ANGLE OF ATTACK 19.92 DEGREES		8	C	



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PRESSURE DISTRIBUTION TEST

APOLLO PS-3

A.E.D.C. TUNNEL C

CONFIGURATION C25

GROUP NUMBER 14.

TOTAL PRESSURE 199.1 PSIA

TOTAL TEMPERATURE 1671.0 DEGREES RANKINE

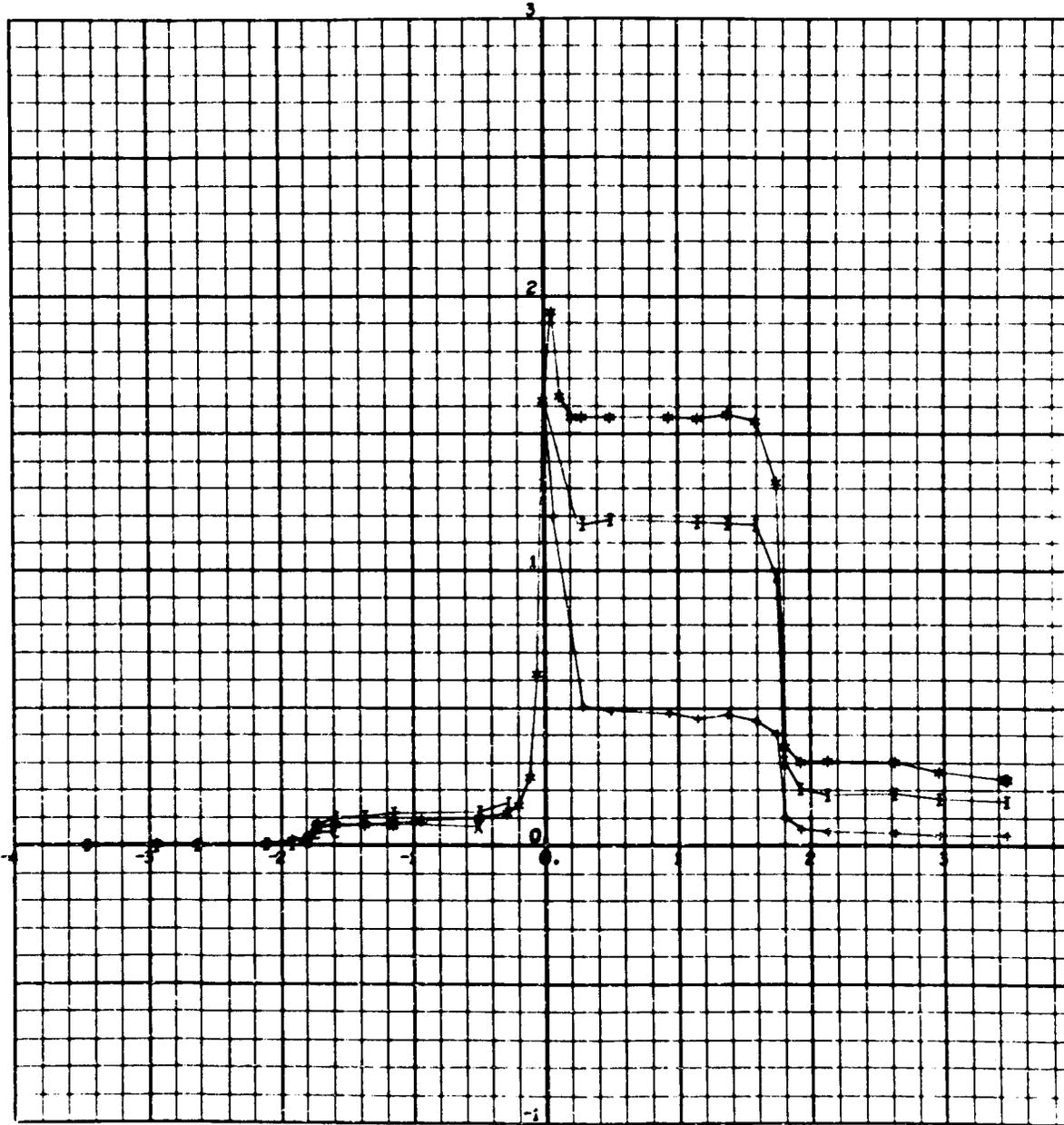
REYNOLDS NUMBER PER INCH  $0.0255 \times 10^{-6}$

ANGLE OF ATTACK 25.03 DEGREES

MACH NO. , 10.04

RAY	SYMBOL
0 - 9	*
1 - 7	X
2 - 6	I
4	+
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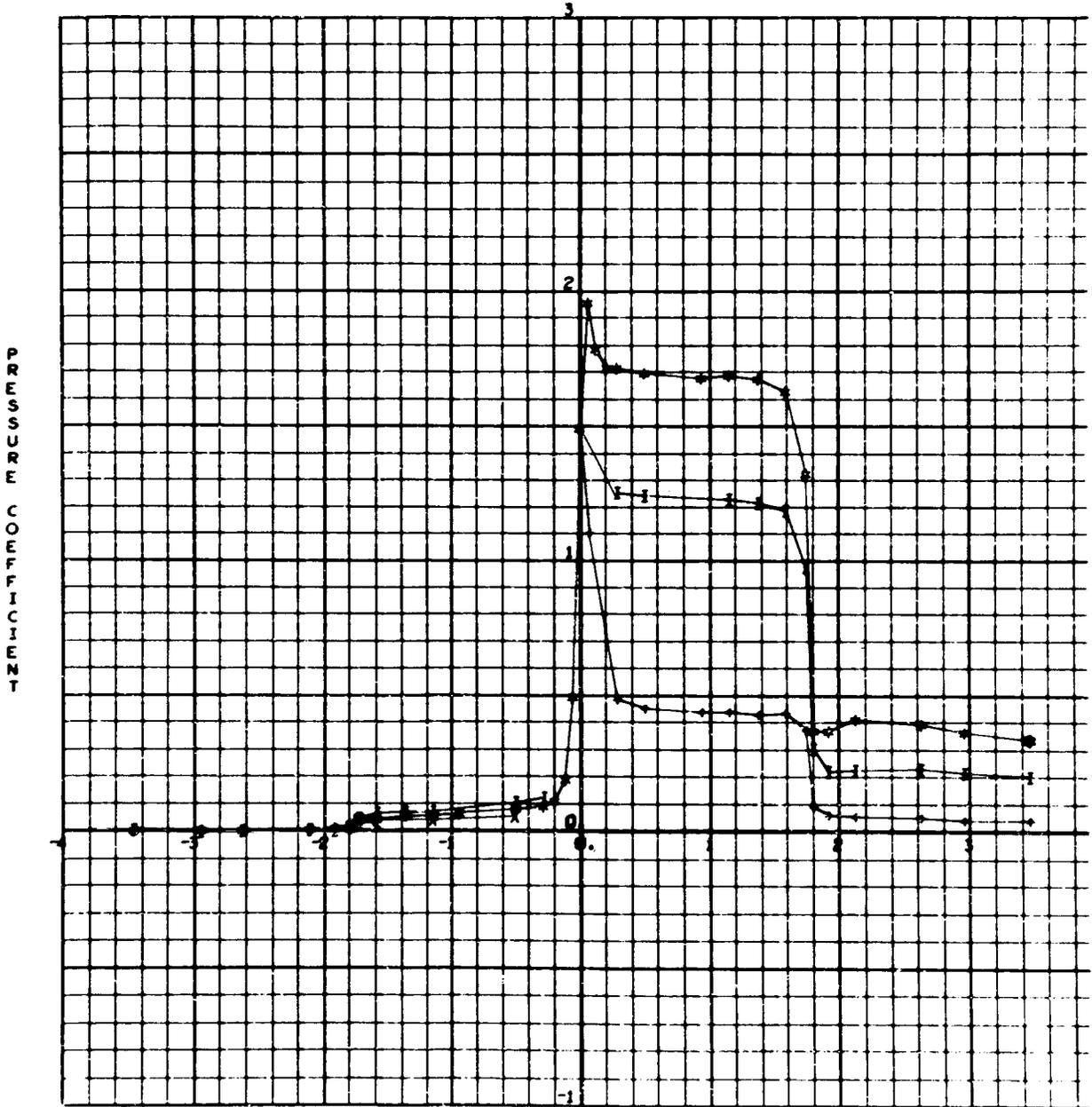


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PRESSURE DISTRIBUTION TEST  
 APOLLO PS-3  
 A.E.D.C. TUNNEL C

CONFIGURATION C25  
 GROUP NUMBER 15.  
 TOTAL PRESSURE 201.0 PSIA  
 TOTAL TEMPERATURE 1667.0 DEGREES RANKINE  
 REYNOLDS NUMBER PER INCH  $0.0258 \times 10^{-6}$   
 ANGLE OF ATTACK 29.49 DEGREES

RAY	SYMBOL
0 - 9	*
1 - 7	x
2 - 6	I
4	+
8	C



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PRESSURE DISTRIBUTION TEST

APOLLO PS-3

A.E.D.C. TUNNEL C

CONFIGURATION C25

GROUP NUMBER 3.

TOTAL PRESSURE 204.6 PSIA

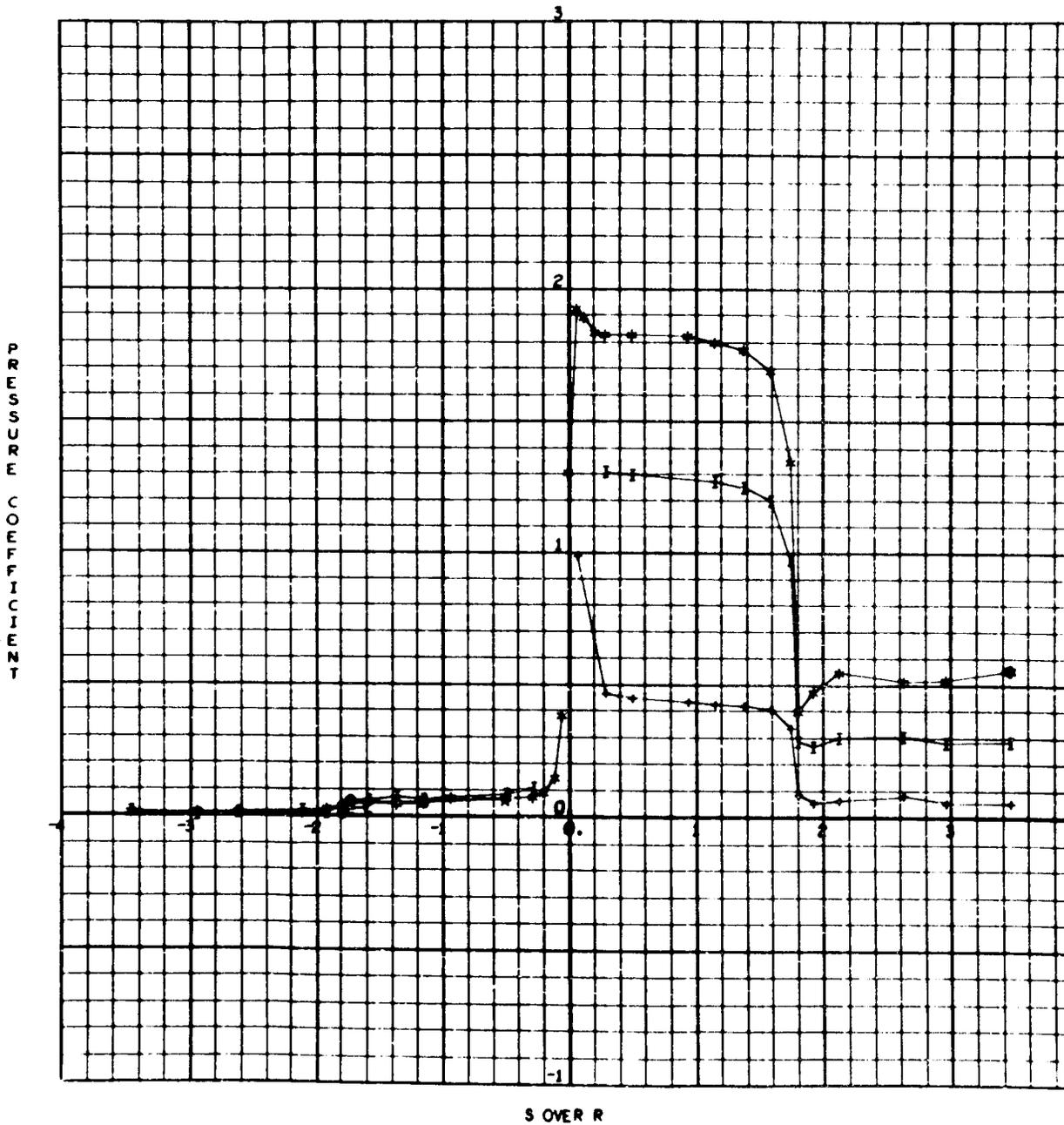
TOTAL TEMPERATURE 1646.0 DEGREES RANKINE

REYNOLDS NUMBER PER INCH  $0.0269 \times 10^{-6}$

ANGLE OF ATTACK 35.00 DEGREES

MACH NO. , 10.04

RAY	SYMBOL
0 - 9	*
1 - 7	x
2 - 6	I
4	+
8	C



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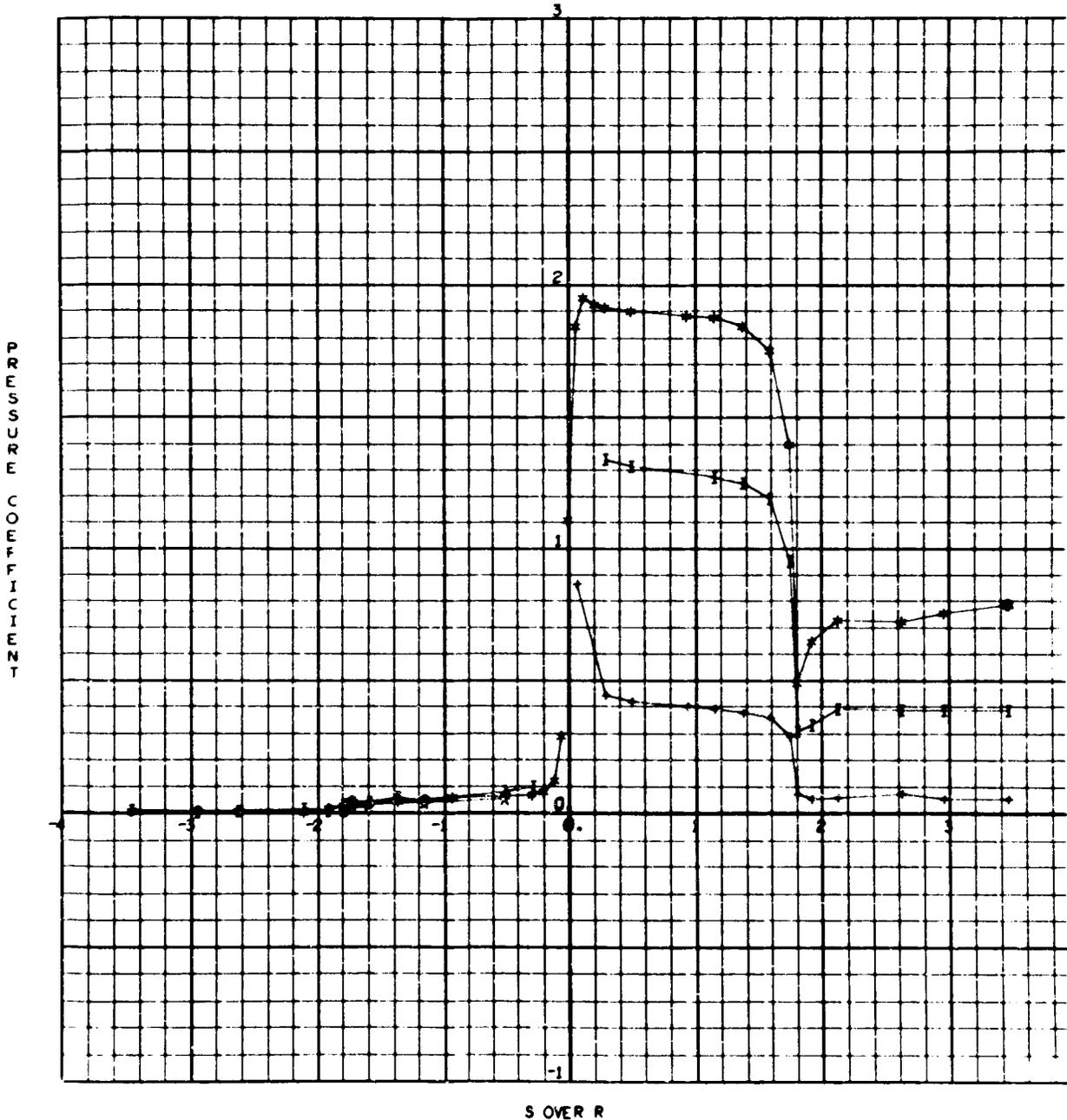


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PRESSURE DISTRIBUTION TEST  
 APOLLO PS-3  
 A.E.D.C. TUNNEL C

CONFIGURATION C2S  
 GROUP NUMBER 4.  
 TOTAL PRESSURE 201.4 PSIA  
 TOTAL TEMPERATURE 1663.0 DEGREES RANKINE  
 REYNOLDS NUMBER PER INCH 0.0260 X 10<sup>6</sup>  
 ANGLE OF ATTACK 39.97 DEGREES

RAY	SYMBOL
0 - 9	*
1 - 7	x
2 - 6	I
4	+
8	C

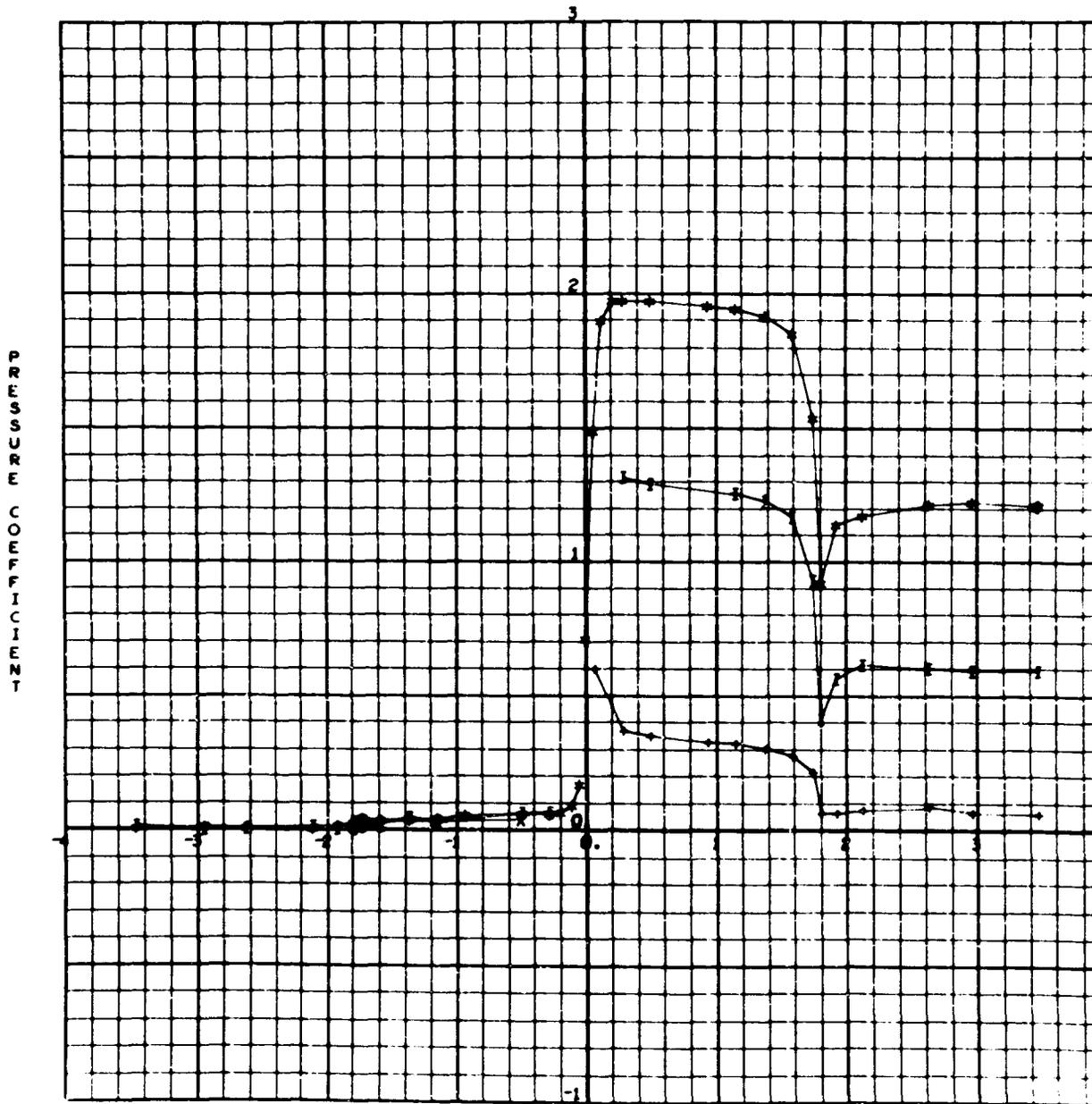


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PRESSURE DISTRIBUTION TEST	CONFIGURATION C2S	MACH NO. , 10.03	RAY	SYMBOL
APOLLO PS-3	GROUP NUMBER 5.		0 - 9	*
A.E.D.C. TUNNEL C	TOTAL PRESSURE 198.4 PSIA		1 - 7	x
	TOTAL TEMPERATURE 1667.0 DEGREES RANKINE		2 - 6	I
	REYNOLDS NUMBER PER INCH 0.0255 X 10 <sup>-6</sup>		4	+
	ANGLE OF ATTACK 50.01 DEGREES		8	C



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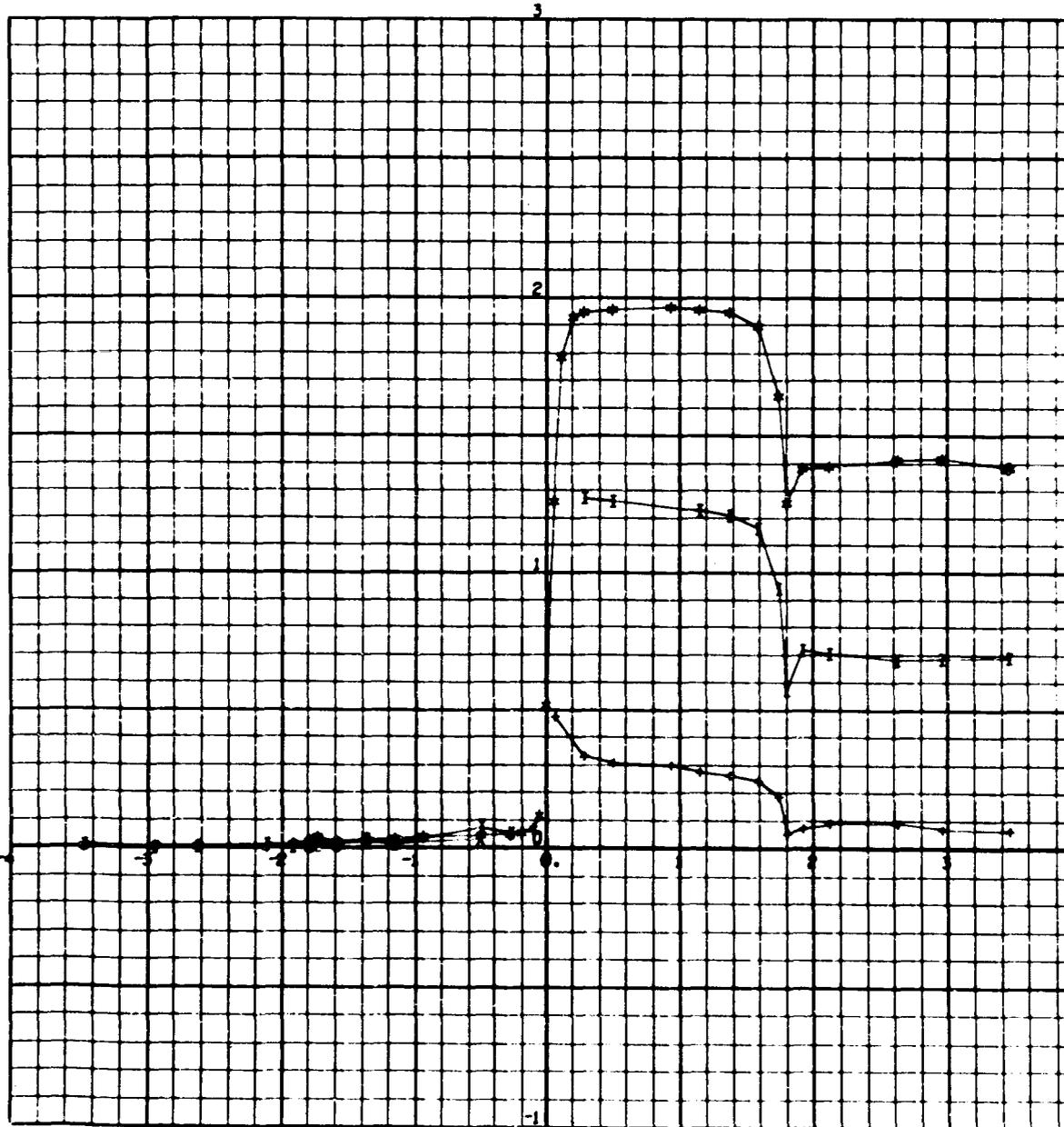
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PRESSURE DISTRIBUTION TEST  
 APOLLO PS-3  
 A.E.D.C. TUNNEL C

CONFIGURATION C25 MACH NO. , 10.03  
 GROUP NUMBER 6.  
 TOTAL PRESSURE 195.7 PSIA  
 TOTAL TEMPERATURE 1676.0 DEGREES RANKINE  
 REYNOLDS NUMBER PER INCH  $0.0249 \times 10^{-6}$   
 ANGLE OF ATTACK 55.09 DEGREES

RAY	SYMBOL
0 - 9	*
1 - 7	X
2 - 6	I
4	+
8	C

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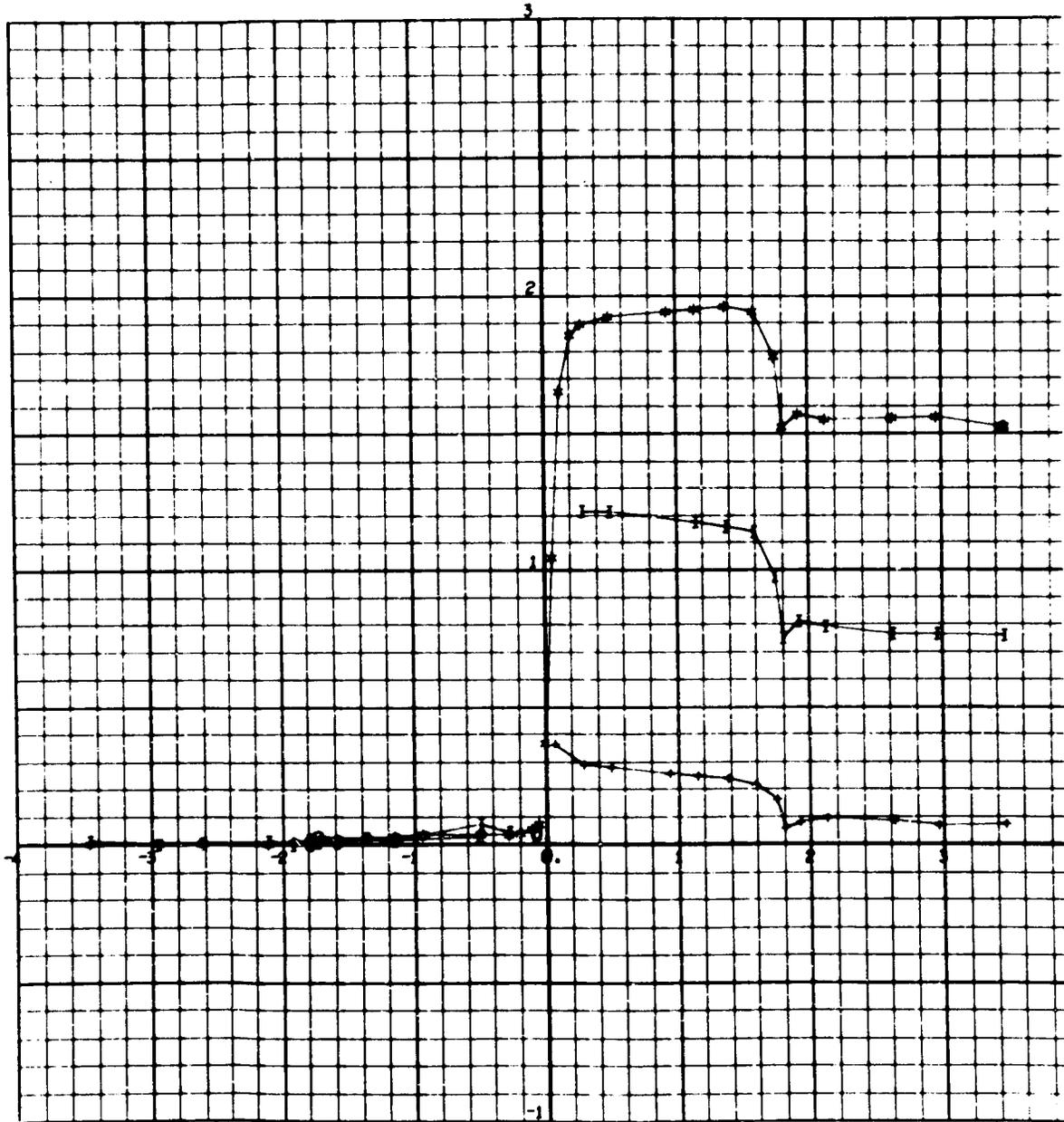
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PRESSURE DISTRIBUTION TEST  
 APOLLO PS-3  
 A.E.D.C. TUNNEL C

CONFIGURATION C2S MACH NO. , 10.03  
 GROUP NUMBER 7.  
 TOTAL PRESSURE 194.8 PSIA  
 TOTAL TEMPERATURE 1678.0 DEGREES RANKINE  
 REYNOLDS NUMBER PER INCH  $0.0247 \times 10^{-6}$   
 ANGLE OF ATTACK 59.52 DEGREES

RAY	SYMBOL
0 - 9	*
1 - 7	X
2 - 6	I
4	+
8	C

PRESSURE DISTRIBUTION TEST



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